

## JANUARY 1, 2004, VOL. 93, NO. 1

## CORONARY ARTERY DISEASE

- Circadian Variation of Plaque Rupture in Acute Myocardial Infarction** ..... 1  
Atsushi Tanaka, Takahiko Kawarabayashi, Daiju Fukuda, Yoshiharu Nishibori, Tsunemori Sakamoto, Yukio Nishida, Kenei Shimada, and Junichi Yoshikawa

- Increased Coronary Arterial Release of Interleukin-1 Receptor Antagonist and Soluble CD40 Ligand Indicative of Inflammation Associated With Culprit Coronary Plaques** ..... 6  
Atul Aggarwal, David J. Schneider, Edward F. Terrien, Burton E. Sobel, and Harold L. Dauerman

- Usefulness of Attenuated Heart Rate Recovery Immediately After Exercise to Predict Endothelial Dysfunction in Patients With Suspected Coronary Artery Disease** ..... 10  
Po-Hsun Huang, Hsin-Bang Leu, Jaw-Wen Chen, Chien-Ming Cheng, Chun-Yao Huang, Ta-Chuan Tuan, Philip Yu-An Ding, and Shing-Jong Lin

- Incidence of Recovery of Contractile Function Following Revascularization in Patients With Ischemic Left Ventricular Dysfunction** ..... 14  
Arend F.L. Schinkel, Don Poldermans, Jean-Louis J. Vanoverschelde, Abdou Elhendy, Eric Boersma, Jos R.T.C. Roelandt, and Jeroen J. Bax

- Correlation of Postpercutaneous Coronary Intervention Creatine Kinase-MB and Troponin I Elevation in Predicting Mid-Term Mortality** ..... 18  
Annapoorna S. Kini, Paul Lee, Jonathan D. Marmur, Ajay Agarwal, Mary E. Duffy, Michael C. Kim, and Samin K. Sharma

- Usefulness of Dipyridamole Stress Echocardiography for Predicting Graft Patency After Coronary Artery Bypass Grafting** ..... 24  
Fabio Chirillo, Andrea Bruni, Alessandro De Leo, Zoran Olivari, Enrico Franceschini-Grisolia, Oscar Totis, and Paolo Stritoni

## PREVENTIVE CARDIOLOGY

- Comparisons of Effects of Statins (Atorvastatin, Fluvastatin, Lovastatin, Pravastatin, and Simvastatin) on Fasting and Postprandial Lipoproteins in Patients With Coronary Heart Disease Versus Control Subjects** ..... 31  
Ernst J. Schaefer, Judith R. McNamara, Timothy Tayler, Jennifer A. Daly, Joi L. Gleason, Leo J. Seman, Andrea Ferrari, and Joel J. Rubenstein

- Comparison of Cardiac Structure and Function in American Indians With and Without the Metabolic Syndrome (The Strong Heart Study)** ..... 40

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

Marcello Chinali, Richard B. Devereux, Barbara V. Howard, Mary J. Roman, Jonathan N. Bella, Jennifer E. Liu, Helaine E. Resnick, Elisa T. Lee, Lyle G. Best, and Giovanni de Simone

- Comparison of Recurrence Rates After Direct-Current Cardioversion for New-Onset Atrial Fibrillation in Patients Receiving Versus Those Not Receiving Rhythm-Control Drug Therapy** ..... 45  
Huang Li, Roger Riedel, J. Bradley Oldemeyer, Karen Rovang, and Tom Hee

- A Comparison of Pulmonary Vein Ostial Anatomy by Computerized Tomography, Echocardiography, and Venography in Patients With Atrial Fibrillation Having Radiofrequency Catheter Ablation** ..... 49  
Mark A. Wood, Michael Wittkamp, Daniel Henry, Robert Martin, J.V. Nixon, Richard K. Shepard, and Kenneth A. Ellenbogen

## HEART FAILURE

- Risks for Atrial Fibrillation and Congestive Heart Failure in Patients  $\geq 65$  Years of Age With Abnormal Left Ventricular Diastolic Relaxation** ..... 54  
Teresa S.M. Tsang, Marion E. Barnes, Bernard J. Gersh, Kent R. Bailey, and James B. Seward

- Measures of Heart Period Variability as Predictors of Mortality in Hospitalized Patients With Decompensated Congestive Heart Failure** ..... 59  
Doron Aronson, Murray A. Mittleman, and Andrew J. Burger

## CARDIOMYOPATHY

- Myocardial Perfusion Reserve and Peripheral Endothelial Function in Patients With Idiopathic Dilated Cardiomyopathy** ..... 64  
Kira Q. Stolen, Jukka Kempainen, Kari K. Kallikowski, Hannu Karanko, Jyri Toikka, Tuula Janatuinen, Olli T. Raitakari, K.E. Juhani Airaksinen, Pirjo Nuutila, and Juhani Knuuti

## EDITORIALS

- Practical Approach to Incorporating New Studies and Guidelines for Antiplatelet Therapy in the Management of Patients With Non-ST-Segment Elevation Acute Coronary Syndrome** ..... 69  
William E. Boden

- Atherosclerotic Risk Factors Revisited** ..... 73  
Harvey S. Hecht

## BRIEF REPORTS

- Influence of Conduction Disturbances on Clinical Outcome in Patients With Acute Myocardial Infarction Receiving Thrombolysis (Results from the ARGAMI-2 Study)** ..... 76

Aiden Abidov, Edo Kaluski, Hanoch Hod, Johnatan Leor, Zvi Vered, Shmuel Gottlieb, Solomon Behar, and Gad Cotter, for the Israel Working Group on Intensive Cardiac Care

**Results of Cardiac Rehabilitation in Patients With Diabetes Mellitus** ..... 81  
John A. Banzer, Thomas E. Maguire, Cheryl M. Kennedy, Carol J. O'Malley, and Gary J. Balady

**Effect of Atorvastatin 80 mg on Endothelial Cell Function (Forearm Blood Flow) in Patients With Pretreatment Serum Low-Density Lipoprotein Cholesterol Levels <130 mg/dl** ..... 84  
Sven Wassmann, Nicole Ribaudo, Anna Faul, Ulrich Laufs, Michael Böhm, and Georg Nickenig

**Comparison of Ischemia-Modified Albumin Levels in Patients Undergoing Percutaneous Coronary Intervention for Unstable Angina Pectoris With Versus Without Coronary Collaterals** ..... 88  
Iris Paula Garrido, Debashis Roy, Ramon Calviño, Jose Manuel Vazquez-Rodriguez, Guillermo Aldama, Juan Cosin-Sales, Juan Quiles, David C. Gaze, and Juan Carlos Kaski

**Effectiveness of Percutaneous Coronary Intervention in Cardiac Allograft Vasculopathy** ..... 90  
Amit A. Doshi, Joseph Rogers, Morton J. Kern, and Paul J. Hauptman

**Effect of Fluvastatin on Long-Term Outcome After Coronary Revascularization With Stent Implantation** ... 92  
Francesco Saia, Pim de Feyter, Patrick W. Serruys, Pedro A. Lemos, Chourmouzas A. Arampatzis, Guy R. Hendrickx, Nicholas Delarche, Dick Goedhart, Emmanuel Lesaffre, and Angelo Branzi, for the Lescol Intervention Prevention Study (LIPS) Investigators

**Effectiveness and Safety of Manual Hemostasis Facilitated by the SyvekPatch With One Hour of Bedrest After Coronary Angiography Using Six-French Catheters** .... 96  
Bruce L. Palmer, D. Scott Ganit, Mark E. Lawrence, M. Hassan Rajab, and Gregory J. Dehmer

**Comparison of the Effects of Removal of Chest Hair With Not Doing So Before External Defibrillation on Transthoracic Impedance** ..... 98  
Daniel M. Sado, Charles D. Deakin, Graham W. Petley, and Frank Clewlow

**Relation of Response of Subclinical Atherosclerosis Detected by Electron Beam Tomography to Baseline Low-Density Lipoprotein Cholesterol Levels** ..... 101  
Harvey S. Hecht and S. Mitchell Harman

**CYP3A4 Genotypes and Plasma Lipoprotein Levels Before and After Treatment With Atorvastatin in Primary Hypercholesterolemia** ..... 104  
Kouji Kajinami, Margaret E. Brousseau, Jose M. Ordovas, and Ernst J. Schaefer

**Electrophysiologic Predictors of the Recurrence of Persistent Atrial Fibrillation Within 30 Days of Cardioversion** ..... 107

Merritt H. Raitt, Walter Kusumoto, George D. Giraud, and John H. McAnulty

**New Method for Real-Time Discrimination and Management of Ventricular and Supraventricular Tachyarrhythmias Applicable to Patients With Dual-Chamber Cardioverter-Defibrillators** ..... 111  
Samir Saba, William Barrington, and Leonard I. Ganz

**Right Ventricular Diastolic Function in Patients With Chronic Aortic Regurgitation** ..... 115  
Ioannis N. Dourvas, Georgios E. Parharidis, Georgios K. Efthimiadis, Haralambos I. Karvounis, Konstantinos D. Gemitzis, Ioannis H. Styliadis, Takis N. Karoulas, and Georgios E. Louridas

**Incidence, Outcome, and Risk Factors for Stroke After the Fontan Procedure** ..... 117  
David S. Chun, Marcus S. Schamberger, Theresa Flaspohler, Mark W. Turrentine, John W. Brown, Anne G. Farrell, and Donald A. Girod

**Comparison of Perception of Health Status by Physicians, Nurses, and Patients in the Dual Chamber And VVI Implantable Defibrillator (DAVID) Trial** ..... 120  
Andrew E. Epstein, Alison Swarens, Anne Skadsen, Sheryl W. Murphy, Kenneth A. Ellenbogen, Laura Gebhardt, and the DAVID Investigators

**Immunohistochemical Testing for *Helicobacter Pylori* Infection in Ascending Aortic Aneurysms and Penetrating Aortic Ulcers** ..... 122  
George J. Koullias, Dimitris P. Korkolis, Ioannis S. Hatzaras, John A. Eleftheriades, and Dhanpat Jain

## FROM THE EDITOR

**Miscellany** ..... 124  
William C. Roberts

## READERS' COMMENTS

**Evaluation of Patients With Chest Pain** ..... 129  
**There Is No "Insignificant" Coronary Artery Disease** ..... 129  
**Correction** ..... 130

## JANUARY 15, 2004, VOL. 93, NO. 2

### CORONARY ARTERY DISEASE

**Assessment of Quality of Life and Cognitive Function After Out-of-Hospital Cardiac Arrest With Successful Resuscitation** ..... 131  
Anouk P. van Alem, Reinier A. Waalewijn, Rudolph W. Koster, and Rien de Vos

**The Metabolic Syndrome and Risk of Major Coronary Events in the Scandinavian Simvastatin Survival Study (4S) and the Air Force/Texas Coronary Atherosclerosis Prevention Study (AFCAPS/TexCAPS)** ..... 136

Cynthia J. Girman, Thomas Rhodes, Michele Mercuri, Kalevi Pyörälä, John Kjekshus, Terje R. Pedersen, Polly A. Beere, Antonio M. Gotto, and Michael Clearfield, for the 4S Group and the AFCAPS/TexCAPS Research Group

# **Use of Tissue Doppler Imaging to Facilitate the Prediction of Events in Patients With Abnormal Left Ventricular Function by Dobutamine Echocardiography** ..... 142

Thomas H. Marwick, Colin Case, Rodel Leano, Leanne Short, Terri Baglin, Peter Cain, and Paul Garrahy

# **Efficacy and Safety of Sildenafil Citrate in Men With Erectile Dysfunction and Stable Coronary Artery Disease** ..... 147

Robert F. DeBusk, Carl J. Pepine, Dale B. Glasser, Arkady Shpilsky, Herb DeRiesthal, and Michael Sweeney

# **Treating to New Targets (TNT) Study: Does Lowering Low-Density Lipoprotein Cholesterol Levels Below Currently Recommended Guidelines Yield Incremental Clinical Benefit?** ..... 154

David D. Waters, John R. Guyton, David M. Herrington, Mary P. McGowan, Nanette K. Wenger, and Charles Shear, for the TNT Steering Committee Members and Investigators

## **PREVENTIVE CARDIOLOGY**

# **Effect of Increasing Metabolic Syndrome Score on Atherosclerotic Risk Profile and Coronary Artery Disease Angiographic Severity** ..... 159

B. Charles Solymoss, Martial G. Bourassa, Lucien Campeau, Allan Sniderman, Michel Marcil, Jacques Lespérance, Sylvie Lévesque, and Susan Varga

## **ARRHYTHMIAS AND CONDUCTION DISTURBANCES**

# **Comparison of Left Atrial Volume and Function After Linear Ablation and After Cardioversion for Chronic Atrial Fibrillation** ..... 165

Liza Thomas, Stuart P. Thomas, Michelle Hoy, Anita Boyd, Nelson B. Schiller, and David L. Ross

## **CARDIOMYOPATHY**

# **Conduction System Abnormalities in Patients With Obstructive Hypertrophic Cardiomyopathy Following Septal Reduction Interventions** ..... 171

Jian Xin Qin, Takahiro Shiota, Harry M. Lever, Craig R. Asher, Zoran B. Popović, Neil L. Greenberg, Deborah A. Agler, Jeanne K. Drinko, Nicholas G. Smedira, E. Murat Tuzcu, Bruce W. Lytle, and James D. Thomas

## **INTERVIEW**

# **PROFESSOR SIR MAGDI HABIB YACOB, FRS, FRCS, FRCP, DS: A Conversation With the Editor** ..... 176

William C. Roberts

## **BRIEF REPORTS**

# **Population Implications of Changes in Lipid Management in Patients With Coronary Heart Disease** ..... 193

Kathleen A. Foley, Mark W. Massing, Ross J. Simpson, Jr., Charles M. Alexander, and Leona E. Markson

# **Effect of Abciximab on Prothrombin Activation and Thrombin Generation in Patients With Acute Myocardial Infarction Also Receiving Reteplase** ..... 195

Piera Angelica Merlini, Alessandra Repetto, Anna Maria Andreoli, Silvio Ricci, Alessandro Lombardi, Angelo Finardi, Giuseppe Dipasquale, Monica Lamponi, Pier Mannuccio Mannucci, and Diego Ardissino

# **Effect of Rheumatoid Arthritis or Systemic Lupus Erythematosus on the Risk of First-Time Acute Myocardial Infarction** ..... 198

Lorenz M. Fischer, Raymond G. Schlienger, Christian Matter, Hershel Jick, and Christoph R. Meier

# **Usefulness of Compensatory Hyperkinesis in the Noninfarcted Left Ventricular Wall in Separating Single from Multivessel Coronary Artery Disease in Patients With Initial ST-Elevation Acute Myocardial Infarction** ..... 201

Swaminatha V. Gurudevan, Ehtisham Mahmud, Daniel G. Blanchard, G. Monet Strachan, Teri Dittich, Christopher Mathews, Anthony N. DeMaria, and Ajit B. Raisinghani

# **Relation of Thrombomodulin Gene Polymorphisms to Acute Myocardial Infarction in Patients $\leq 50$ Years of Age** ..... 204

Ting-Hsing Chao, Yi-Heng Li, Jyh-Hong Chen, Hua-Lin Wu, Guey-Yueh Shi, Wei-Chuan Tsai, Pin-Shern Chen, and Ping-Yen Liu

# **Temperature of Blood in the Coronary Sinus and Right Atrium in Patients With and Without Coronary Artery Disease** ..... 207

Christodoulos Stefanadis, Eleftherios Tsiamis, Sophia Vaina, Konstantinos Toutouzas, Harrisios Boudoulas, John Gialafas, and Pavlos Toutouzas

# **Luminal Recovery from Six to Twelve Months After Implantation of "Thicker Strut" Coronary Stents** ..... 210

George C.X. Meireles, Pedro A. Lemos, John A. Ambrose, Expedito Ribeiro, Pedro E. Horta, Marco Perin, José A.F. Ramires, and Eulógio E. Martinez

# **Incidence, Predictors, In-Hospital, and Late Outcomes of Coronary Artery Perforations** ..... 213

Goran Stankovic, Dejan Orlic, Nicola Corvaja, Flavio Airoldi, Alaide Chieffo, Vassilis Spanos, Matteo Montorfano, Mauro Carlino, Leo Finci, Giuseppe Sangiorgi, and Antonio Colombo

# **Effect of Simvastatin on Serum C-Reactive Protein During Hormone Replacement Therapy** ..... 217

Eftihia Sbarouni, Zenon S. Kyriakides, and Dimitrios Th. Kremastinos

# **Effect of *Helicobacter Pylori* Eradication on High-Density Lipoprotein Cholesterol** ..... 219

Hubert Scharnagl, Manfred Kist, Andrea Busse Grawitz, Wolfgang Koenig, Heinrich Wieland, and Winfried März

<b>Effect of Physical Activity on Serum C-Reactive Protein</b> .....	221	<b>Left Ventricular Diastolic Dysfunction in Ebstein's Anomaly</b> .....	255
Michelle A. Albert, Robert J. Glynn, and Paul M. Ridker		Kei Inai, Toshio Nakanishi, Yoshiki Mori, Hirohumi Tomimatsu, and Makoto Nakazawa	
<b>Comparison of Catecholamine Response During Tilt-Table-Induced Vasovagal Syncope in Patients &lt;35 to Those &gt;65 Years of Age</b> .....	225	<b>A Prospective Registry of 5,451 Patients With Ultrasound-Confirmed Deep Vein Thrombosis</b> .....	259
Cengiz Ermis, Nemer Samniah, Scott Sakaguchi, Keith G. Lurie, Scott Pham, Fei Lu, and David G. Benditt		Samuel Z. Goldhaber and Victor F. Tapson, for the DVT FREE Steering Committee	
<b>Usefulness of Brain Natriuretic Peptide as a Marker for Separating Cardiac and Noncardiac Causes of Syncope</b> .....	228	<b>Prevalence of Increased Cardiac Troponin I Levels in Patients With and Without Acute Pulmonary Embolism and Relation of Increased Cardiac Troponin I Levels With In-Hospital Mortality in Patients With Acute Pulmonary Embolism</b> .....	263
Kojiro Tanimoto, Kazushi Yukiiri, Katsufumi Mizushige, Yuichiro Takagi, Hisashi Masugata, Kaori Shinomiya, Naohisa Hosomi, Tsutomu Takahashi, Koji Ohmori, and Masakazu Kohno		Kiran Yalamanchili, Rishi Sukhija, Wilbert S. Aronow, Neeraj Sinha, Arlen G. Fleisher, and Stuart G. Lehrman	
<b>A Novel Form of Familial Bidirectional Ventricular Tachycardia</b> .....	231	<b>Effect of Cold, Isometric Exercise, and Combination of Both on Aortic Pulse in Healthy Subjects</b> .....	265
Eyal Nof, Hadas Lahat, Naama Constantini, David Luria, Gail Rosenfeld, Michael Eldar, Elon Pras, and Michael Glikson		Parashos Geleris, Alexia Stavratu, and Harisios Boudoulas	
<b>Development of a Depressed Left Ventricular Ejection Fraction in Patients With Left Ventricular Hypertrophy and a Normal Ejection Fraction</b> .....	234	<b>Prevalence of Stroke and Associated Risk Factors in Asian Indians Living in the State of Georgia, United States of America</b> .....	267
J. Eduardo Rame, Marlon Ramilo, Nali Spencer, Christopher Blewett, Sameer K. Mehta, Daniel L. Dries, and Mark H. Drazner		Gurpreet Boweja, Navin C. Nanda, Naresh Parikh, Vishal Bhatia, and Rajesh Venkataraman	
<b>Comparison of Effects on Left Ventricular Filling Pressure of Intravenous Nesiritide and High-Dose Nitroglycerin in Patients With Decompensated Heart Failure</b> .....	237		
Uri Elkayam, Mohammed W. Akhter, Harpreet Singh, Salman Khan, and Ahsan Usman			
<b>Meta-Analysis of Effectiveness or Lack Thereof of Angiotensin-Converting Enzyme Inhibitors for Prevention of Heart Failure in Patients With Systemic Hypertension</b> .....	240		
Fabio Angeli, Paolo Verdecchia, Gian Paolo Reboldi, Roberto Gattobigio, Maurizio Bentivoglio, Jan A. Staessen, and Carlo Porcellati			
<b>Prevalence of QRS Prolongation in a Community Hospital Cohort of Patients With Heart Failure and Its Relation to Left Ventricular Systolic Dysfunction</b> .....	244		
Roopinder Sandhu and Robert C. Bahler			
<b>Comparison of Efficacy, Safety, and Cost of Low-Molecular-Weight Heparin With Continuous-Infusion Unfractionated Heparin for Initiation of Anticoagulation After Mechanical Prosthetic Valve Implantation</b> .....	247		
John Fanikos, Kanella Tsilimingras, Nils Kucher, Allison B. Rosen, Melissa D. Hiebinger, and Samuel Z. Goldhaber			
<b>Prognostic Usefulness of Echocardiographic Dobutamine in Younger (14 to 25 Years) and Older (40 to 55 Years) Patients With Idiopathic Dilated Cardiomyopathy</b> .....	251		
Ioannis A. Paraskevaidis, Stamatis Adamopoulos, Dimitrios Tsiapras, Dimitrios Karatzas, and Dimitrios T. Kremastinos			
		<b>CASE REPORTS</b>	
		<b>Usefulness of Ambulatory Electrocardiographic Monitoring for Myocardial Ischemia After Coronary Bypass</b> .....	270
		Hemant Solomon and Robert F. DeBusk	
		<b>Chest Pain in an Adult With Truncus Arteriosus Communis</b> .....	272
		Paul Sampaio Gutierrez, Maria Angélica Binotto, Vera Demarchi Aiello, and Alfredo José Mansur	
		<b>FROM THE EDITOR</b>	
		<b>The Metabolic Syndrome</b> .....	274
		William C. Roberts	
		<b>FEBRUARY 1, 2004, VOL. 93, NO. 3</b>	
		<b>CORONARY ARTERY DISEASE</b>	
		<b>Prognostic Usefulness of Marginal Troponin T Elevation</b> .....	275
		Charles A. Henrikson, Eric E. Howell, David E. Bush, J. Shawn Miles, Glenn R. Meininger, Tracy Friedlander, Andrew C. Bushnell, and Nisha Chandra-Strobos	
		<b>Comparison of Reperfusion Regimens With or Without Tirofiban in ST-Elevation Acute Myocardial Infarction</b> .....	280



Marco A. Martínez-Ríos, Martín Rosas, Héctor González, Marco A. Peña-Duque, Carlos Martínez-Sánchez, Jorge Gaspar, Héctor García, Efraín Gaxiola, Luis Delgado, Jorge Carrillo, José-Luis Leyva, and Eulo Lupi, for the SASTRE Investigators

**Six-Month Outcomes in a Multinational Registry of Patients Hospitalized With an Acute Coronary Syndrome (The Global Registry of Acute Coronary Events [GRACE])** ..... 288

Robert J. Goldberg, Kristen Currie, Kami White, David Brieger, Phillippe Gabriel Steg, Shaun G. Goodman, Omar Dabbous, Keith A.A. Fox, and Joel M. Gore

**Long-Term Outcomes of Optimized Medical Management of Outpatients With Stable Coronary Artery Disease** ..... 294

Samer Jabbour, Yinong Young-Xu, Thomas B. Graboys, Charles M. Blatt, Robert J. Goldberg, Susanna E. Bedell, Brian Z. Bilchik, Bernard Lown, and Shmuel Ravid

**Value of Low-Dose Dobutamine Addition to Routine Dual Isotope Gated SPECT Myocardial Imaging in Patients With Healed Myocardial Infarction or Abnormal Wall Thickening by Echocardiogram** ..... 300

Sherif I. Heiba, Hussein M. Abdel-Dayem, Randy Gould, Edward Bernaski, Manuel Morlote, Hossam El-Zeftawy, and John A. Ambrose

**Safety and Tolerability of Simvastatin Plus Niacin in Patients With Coronary Artery Disease and Low High-Density Lipoprotein Cholesterol (The HDL Atherosclerosis Treatment Study)** ..... 307

Xue-Qiao Zhao, Josh S. Morse, Alice A. Dowdy, Nancy Heise, Debbie DeAngelis, Jiri Frohlich, Alan Chait, John J. Albers, and B. Greg Brown

**Usefulness of Periprocedural Creatinine Phosphokinase-MB Release to Predict Adverse Outcomes After Intracoronary Radiation Therapy for In-Stent Restenosis** ..... 313

Andrew E. Ajani, Ron Waksman, Arvind K. Sharma, Robert Lew, Ellen Pinnow, Daniel A. Canos, Edouard Cheneau, Marco Castagna, Dong-Hun Cha, Laurent Leborgne, Lowell F. Satler, Augusto D. Pichard, Kenneth M. Kent, and Joseph Lindsay

## HEART FAILURE

**Differential Contribution of Dead Space Ventilation and Low Arterial pCO<sub>2</sub> to Exercise Hyperpnea in Patients With Chronic Heart Failure Secondary to Ischemic or Idiopathic Dilated Cardiomyopathy** ..... 318

Roland Wensel, Panagiota Georgiadou, Darrel P. Francis, Stephanie Bayne, Adam C. Scott, Sabine Genth-Zotz, Stefan D. Anker, Andrew J.S. Coats, and Massimo F. Piepoli

## VALVULAR HEART DISEASE

**Usefulness of Tissue Doppler Imaging for Estimation of Filling Pressures in Patients With Primary or Secondary Pure Mitral Regurgitation** ..... 324

Christian Bruch, Jörg Stypmann, Rainer Gradaus, Günter Breithardt, and Thomas Wichter

## EDITORIAL

**Rate Control in Patients With Chronic Atrial Fibrillation** ..... 329

Preben Bjerregaard, W. Brian Bailey, and Stephen E. Robinson

## BRIEF REPORTS

**Comparison of the Predictive Value of Exercise-Induced ST Depression Versus Exercise Technetium-99m Sestamibi Single-Photon Emission Computed Tomography Imaging for Detection of Coronary Artery Disease in Patients With Left Ventricular Hypertrophy** ..... 333

Dharmesh Patel, Timir S. Baman, and George A. Beller

**Prevalence of Anxiety in Coronary Patients With Improvements Following Cardiac Rehabilitation and Exercise Training** ..... 336

Carl J. Lavie and Richard V. Milani

**Effect of Preintervention Remodeling Type on Subsequent Coronary Artery Behavior After Directional Atherectomy** ..... 339

Yoshihiro Takeda, Etsuo Tsuchikane, Tomoko Kobayashi, Kenji Yachiku, Kenya Nasu, Nobuhisa Awata, and Tohru Kobayashi

**Effect of Caffeine Administered Intravenously on Intracoronary-Administered Adenosine-Induced Coronary Hemodynamics in Patients With Coronary Artery Disease** ..... 343

Raed A. Aqel, Gilbert J. Zoghbi, James R. Trimm, Shawn A. Baldwin, and Ami E. Iskandrian

**Comparison of Frequency of Hemorrhagic Stroke in Patients <75 Years Versus ≥75 Years of Age Among Patients Receiving Glycoprotein IIb/IIIa Inhibitors During Percutaneous Coronary Interventions** ..... 346

Ioannis Iakovou, George Dangas, Gary S. Mintz, Roxana Mehran, Alexandra J. Lansky, Eve D. Aymong, Eugenia Nikolsky, Tudor Vagaonescu, Lynne A. Glasser, Gregg W. Stone, Martin B. Leon, and Jeffrey W. Moses

**Relation Between Late Patency of the Infarct-Related Artery, Left Ventricular Function, and Clinical Outcomes After Primary Percutaneous Intervention for Acute Myocardial Infarction (CADILLAC Trial)** ..... 349

Amir Halkin, Eve Aymong, David A. Cox, Roxana Mehran, Alexandra J. Lansky, Martin Fahy, Giora Weisz, Eugenio Garcia, James E. Tchong, Cindy L. Grines, and Gregg W. Stone

**Outcomes in Patients With Normal Serum Creatinine and With Artificial Renal Support for Acute Renal Failure Developing After Coronary Artery Bypass Grafting** ..... 353

Marzia Leacche, James D. Rown, Tomislav Mihaljevic, Julie Lin, Alexandros N. Karavas, Subroto Paul, and John G. Byrne

**Effectiveness of Bivalirudin as a Replacement for Heparin During Cardiopulmonary Bypass in Patients Undergoing Coronary Artery Bypass Grafting** ..... 356

Andreas Koster, Bruce Spiess, Derek P. Chew, Thomas Krabatsch, Luc Tambeur, Abe DeAnda, Roland Hetzer, Hermann Kuppe, Nicholas G. Smedira, and A. Michael Lincoff

**Duration of Residence in the United States as a New Risk Factor for Coronary Artery Disease (The Konkani Heart Study)** ..... 359

Shanthalaxmi N. Mooteri, Floyd Petersen, Ramesh Dagubati, and Ramdas G. Pai

**Effects of Rosiglitazone on Endothelial Function, C-Reactive Protein, and Components of the Metabolic Syndrome in Nondiabetic Patients With the Metabolic Syndrome** ..... 362

Tzung-Dau Wang, Wen-Jone Chen, Jong-Wei Lin, Ming-Fong Chen, and Yuan-Teh Lee

**Effect of Direct-Current Cardioversion on Ischemia-Modified Albumin Levels in Patients With Atrial Fibrillation** ..... 366

Debashis Roy, Juan Quiles, Manas Sinha, Guillermo Aldama, David Gaze, Paul Collinson, and Juan Carlos Kaski

**P-Wave Dispersion for Predicting Maintenance of Sinus Rhythm After Cardioversion of Atrial Fibrillation** ..... 368

Abdullah Dogan, Alaettin Avsar, and Mustafa Ozturk

**Implications of Cardiac Resynchronization Therapy and Prophylactic Defibrillator Implantation Among Patients Eligible for Heart Transplantation** ..... 371

Chiara Pedone, Francesco Grigioni, Giuseppe Boriani, Carla Lofiego, Pier Luigi Vassallo, Luciano Potena, Fabio Cocco, Gaia Magnani, Mauro Biffi, Cristian Martignani, Lorenzo Frabetti, Romano Zannoli, Carlo Magelli, and Angelo Branzi

**Effectiveness of Atrial Fibrillation Surgery in Patients With Hypertrophic Cardiomyopathy** ..... 373

Michael S. Chen, Patrick M. McCarthy, Harry M. Lever, Nicholas G. Smedira, and Bruce L. Lytle

**Doppler Tissue Imaging Analysis of Ventricular Function After Surgical and Transcatheter Closure of Atrial Septal Defect** ..... 375

Yiu-fai Cheung, Kin-shing Lun, and Adolphus K. T. Chau

**Comparison of Survival and Other Complications After Heart Transplantation in Patients Taking Amiodarone Before Surgery Versus Those Not Taking Amiodarone** ..... 379

Patrick J. Blomberg, Andrew D. Feingold, David Denofrio, William Rand, Marvin A. Konstam, N.A. Mark Estes III, and Mark S. Link

**Influence of Age, Gender, Body Mass Index, and Functional Capacity on Heart Rate Variability in a Cohort of Subjects Without Heart Disease** ..... 381

Ivana Antelmi, Rogério Silva De Paula, Alexandre R. Shinzato, Clóvis Araújo Peres, Alfredo José Mansur, and Cesar José Grupi

**Effects of Cocaine on Heart Rate Variability in Healthy Subjects** ..... 385

Wanpen Vongpatanasin, J. Andrew Taylor, and Ronald G. Victor

**FEBRUARY 15, 2004, VOL. 93, NO. 4**

**CORONARY ARTERY DISEASE**

**Comparison of Baseline Characteristics and One-Year Outcomes Between African-Americans and Caucasians Undergoing Percutaneous Coronary Intervention** ..... 389

Laurent Leborgne, Edouard Cheneau, Roswitha Wolfram, Ellen E. Pinnow, Daniel A. Canos, Augusto D. Pichard, William O. Suddath, Lowell F. Satler, Joseph Lindsay, and Ron Waksman

**Comparison of Functional Recovery of Mildly Hypokinetic Versus Severely Dysfunctional Left Ventricular Segments After Revascularization in Patients With Ischemic Cardiomyopathy** ..... 394

Vittoria Rizzello, Elena Biagini, Arend F.L. Schinkel, Manolis Bountiokos, Eric Boersma, Eleni C. Vourvouri, Fabiola B. Sozzi, Abdou Elhendy, Jos R.T.C. Roelandt, Don Poldermans, and Jeroen J. Bax

**Comparison of Survival After Successful Percutaneous Coronary Intervention of Patients With Diabetes Mellitus Receiving Insulin Versus Those Receiving Only Diet and/or Oral Hypoglycemic Agents** ..... 399

Verghese Mathew, Robert L. Frye, Ryan Lennon, Greg W. Barsness, and David R. Holmes, Jr.

**Relative Benefit of Coronary Artery Bypass Grafting Versus Stent-Assisted Percutaneous Coronary Intervention for Angina Pectoris and Multivessel Coronary Disease in Women Versus Men (One-Year Results from the Stent or Surgery Trial)** ..... 404

Zefeng Zhang, William S. Weintraub, Elizabeth M. Mahoney, John A. Spertus, Jean Booth, Fiona Nugara, Rodney H. Stables, and Viola Vaccarino

**Comparison of Coronary Artery Specific Leukocyte-Platelet Conjugate Formation in Unstable Versus Stable Angina Pectoris** ..... 410

Parag B. Patel, Steven E. Pfau, Michael W. Cleman, Joseph J. Brennan, Christopher Howes, Michael Remetz, Henry S. Cabin, John F. Setaro, and Henry M. Rinder

**Effect of Simvastatin in Familial Hypercholesterolemia on the Affinity of Electronegative Low-Density Lipoprotein Subfractions to the Low-Density Lipoprotein Receptor** ..... 414

Sonia Benítez, Jordi Ordóñez-Llanos, Miquel Franco, Carmen Marín, Elier Paz, José López-Miranda, Carles Otal, Francisco Pérez-Jiménez, and José Luis Sánchez-Quesada

## VALVULAR HEART DISEASE

- Association of Aortic Valve Calcium Detected by Electron Beam Computed Tomography With Echocardiographic Aortic Valve Disease and With Calcium Deposits in the Coronary Arteries and Thoracic Aorta** ..... 421  
Craig R. Walsh, Martin G. Larson, Michelle J. Kupka, Daniel Levy, Ramachandran S. Vasan, Emelia J. Benjamin, Warren J. Manning, Melvin E. Clouse, and Christopher J. O'Donnell

## CONGENITAL HEART DISEASE

- Incidence of Thrombus Formation on the CardioSEAL and the Amplatzer Interatrial Closure Devices** ..... 426  
Hitoshi Anzai, John Child, Barbara Natanson, Janine Krivokapich, Michael C. Fishbein, Vicki K. Chan, and Jonathan M. Tobis

- Signal-Averaged Electrocardiogram in Ebstein's Anomaly** ..... 432  
Nikola H. Tede, Kalyanam Shivkumar, Joseph K. Perloff, Holly R. Middlekauff, Michael C. Fishbein, John S. Child, and Hillel Laks

- Comparison of Intracardiac Echocardiography Versus Transesophageal Echocardiography Guidance for Percutaneous Transcatheter Closure of Atrial Septal Defect** ..... 437  
Fernando Boccalandro, Edward Baptista, Andreas Muench, Catherine Carter, and Richard W. Smalling

## EDITORIAL

- Pilots, Hypertrophic Cardiomyopathy, and Issues of Aviation and Public Safety** ..... 441  
Barry J. Maron, James A. Barry, and Robert S. Poole

## BRIEF REPORTS

- Importance of the First Two Minutes of Heart Rate Recovery After Exercise Treadmill Testing in Predicting Mortality and the Presence of Coronary Artery Disease in Men** ..... 445  
Michael J. Lipinski, George W. Vetrovec, and Victor F. Froelicher

- Prediction of All-Cause Mortality in Women With Known or Suspected Coronary Artery Disease by Stress Technetium-99m Tetrofosmin Myocardial Perfusion Imaging** ..... 450  
Abdou Elhendy, Arend F.L. Schinkel, Ron T. van Domburg, Jeroen J. Bax, Roelf Valkema, and Don Poldermans

- Incidence and Time Course of Thrombocytopenia With Abciximab and Eptifibatide in Patients Undergoing Percutaneous Coronary Intervention** ..... 453  
Ibrahim E. Fahdi, Jorge F. Saucedo, Thomas Hennebry, Mohammad Ghani, Saihari Sadanandan, and Luis Garza-Arreola

- Frequency of Nonresponse Antiplatelet Activity of Clopidogrel During Pretreatment for Cardiac Catheterization** ..... 456

Joseph E. Mobley, Stuart J. Bresee, Dale C. Wortham, Robert M. Craft, Carolyn C. Snider, and Roger C. Carroll

- Risk Factors for Intracranial Hemorrhage and Nonhemorrhagic Stroke After Fibrinolytic Therapy (from the GUSTO-I Trial)** ..... 458  
David E. Kandzari, Christopher B. Granger, Maarten L. Simoons, Harvey D. White, John Simes, Kenneth W. Mahaffey, Joel Gore, W. Douglas Weaver, William T. Longstreth, Jr., Amanda Stebbins, Kerry L. Lee, Robert M. Califf, and Eric J. Topol, for the GUSTO-I Investigators

- Two-Year Outcomes After Enhanced External Counterpulsation for Stable Angina Pectoris (from the International EECF Patient Registry [IEPR])** ..... 461  
Andrew D. Michaels, Georgiann Linnemeier, Ozlem Soran, Sheryl F. Kelsey, and Elizabeth D. Kennard

- Effect of Enhanced External Counterpulsation on Dobutamine-Induced Left Ventricular Wall Motion Abnormalities in Severe Chronic Angina Pectoris** ..... 465  
Jens Peder Bagger, Roger J.C. Hall, George Koutroulis, and Petros Nihoyannopoulos

- Effectiveness of Primary Angioplasty for Acute Myocardial Infarction in Patients on Dialysis** ..... 468  
Andrew J. West, Simon R. Dixon, Joel K. Kahn, Robert N. Levin, William W. O'Neill, Cindy L. Grines, and Aaron D. Berman

- Intravascular Ultrasound Study of Effects of Overlapping Sirolimus-Eluting Stents** ..... 470  
Juan S. Muñoz, Alexandre Abizaid, Gary S. Mintz, Mariano Albertal, Andrea S. Abizaid, Fausto Feres, Marinella Centemero, Rodolfo Staico, Luiz A. Mattos, Ibraim Pinto, Amanda Sousa, and J. Eduardo Sousa

- Comparison of Diamond-Like Carbon-Coated Stents Versus Uncoated Stainless Steel Stents in Coronary Artery Disease** ..... 474  
Flavio Airoldi, Antonio Colombo, Davide Tavano, Goran Stankovic, Silvio Klugmann, Vito Paolillo, Erminio Bonizzoni, Carlo Briguori, Mauro Carlino, Matteo Montorfano, Francesco Liistro, Alfredo Costelli, Angela Ferrari, Fabio Sgura, and Carlo Di Mario

- Impact of Strut Thickness on Late Luminal Loss After Coronary Artery Stent Placement** ..... 477  
Saskia Z.H. Rittersma, Robbert J. de Winter, Karel T. Koch, Matthijs Bax, Carl E. Schotborgh, Karla J. Mulder, Jan G.P. Tijssen, and Jan J. Piek

- Usefulness of an Abnormal Ankle-Brachial Index to Predict Presence of Coronary Artery Disease in African-Americans** ..... 481  
Kenneth Ese Otah, Atul Madan, Eseroghene Otah, Oluyemi Badero, Luther T. Clark, and Moro O. Salifu

- Computerized QT Dispersion Measurement and Cardiovascular Mortality in Male Veterans** ..... 483  
Bimal R. Shah, Takuya Yamazaki, Gregory Engel, Shaun Cho, Sung H. Chun, and Victor F. Froelicher

**Comparison of Ability to Identify Left Atrial Thrombus by Three-Dimensional Tomography Versus Transesophageal Echocardiography in Patients With Atrial Fibrillation** ..... 486

Wael A. Jaber, Richard D. White, Stacie A. Kuzmiak, Janet M. Boyle, Andrea Natale, Carolyn Apperson-Hansen, James D. Thomas, and Craig R. Asher

**Relation of Coronary Artery Calcium to Left Ventricular Mass in African-Americans** ..... 490

Wenjing Tong, Joao A. Lima, Hong Lai, David D. Celentano, Shupeng Dai, and Shenghan Lai

**Usefulness of Clinical Assessment of the Carotid Pulse in the Diagnosis of Aortic Stenosis** ..... 493

Joseph Selvanayagam, Carmine De Pasquale, and Leonard Arnold

**Effects of Cardiac Resynchronization Therapy on Myocardial Blood Flow Measured by Oxygen-15 Water Positron Emission Tomography in Idiopathic Dilated Cardiomyopathy and Left Bundle Branch Block** ..... 496

Bernd Nowak, Christoph Stellbrink, Anil M. Sinha, Hans-Jürgen Kaiser, Patrick Reinartz, Ralf Koos, Kai Markus, Peter Hanrath, Ulrich Buell, and Wolfgang M. Schaefer

**Prognostic Usefulness of Left Ventricular Thrombus by Echocardiography in Dilated Cardiomyopathy in Predicting Stroke, Transient Ischemic Attack, and Death** ..... 500

Thomas C. Crawford, William T. Smith IV, Eric J. Velazquez, Steve M. Taylor, James G. Jollis, and Joseph Kisslo

**Respiratory Symptoms Secondary to Aortopulmonary Collateral Vessels in Tetralogy of Fallot Absent Pulmonary Valve Syndrome** ..... 503

Alison L. Knauth, Audrey C. Marshall, Tal Geva, Richard A. Jonas, and Gerald R. Marx

**Late Post-Repair Ventricular Function in Patients With Origin of the Left Main Coronary Artery from the Pulmonary Trunk** ..... 506

Giovanni Di Salvo, Benedicte Eyskens, Piet Claus, Jan D'hooge, Bart Bijnen, Bert Suys, Daniel De Wolf, Marc Gewillig, George R. Sutherland, and Luc Mertens

**Cost Analysis of "Bridging Therapy" With Low-Molecular-Weight Heparin Versus Unfractionated Heparin During Temporary Interruption of Chronic Anticoagulation** ..... 509

Stacey L. Amorosi, Kanella Tsilimingras, David Thompson, John Fanikos, Milton C. Weinstein, and Samuel Z. Goldhaber

**Analysis of Occurrence of Venous Thromboembolic Disease in the Four Seasons** ..... 511

Paul D. Stein, Fadi Kayali, and Ronald E. Olson

**Analysis of Infective Endarteritis in Patent Ductus Arteriosus** ..... 513

Masood Sadiq, Farhan Latif, and Asif ur-Rehman

**"Read Guyton"** ..... 516

Hector O. Ventura

**CASE REPORT**

**Electrocardiographic Changes Associated With Training and Discontinuation of Training in an Athlete with Hypertrophic Cardiomyopathy** ..... 518

Patrizio Sarto, Laura Merlo, Donatella Noventa, Cristina Basso, Antonio Pelliccia, and Barry J. Maron

**FROM THE EDITOR**

**Good Books in Cardiology Appearing in 2003** ..... 520

**READERS' COMMENTS**

**A Propensity Analysis of the Impact of Platelet Glycoprotein IIb/IIIa Inhibitor on In-Hospital Outcomes After Percutaneous Coronary Intervention** ..... 524

**Effectiveness of Statin Titration on Low-Density Lipoprotein Cholesterol Goal Attainment in Patients at High Risk of Atherogenic Events** ..... 525

**Congenital Bicuspid Aortic Valve and Rate of Ascending Aortic Dilatation** ..... 525

**Correction** ..... 526

**MARCH 1, 2004, VOL. 93, NO. 5**

**CORONARY ARTERY DISEASE**

**Effects of Percutaneous Coronary Arterial Thrombectomy During Acute Myocardial Infarction on Left Ventricular Remodeling** ..... 527

Hiroaki Kondo, Takahiko Suzuki, Tatsuya Fukutomi, Shogo Suzuki, Motoya Hayase, Shigenori Ito, Shinsuke Ojio, Mariko Ehara, Yutaka Takeda, and Makoto Itoh

**Association of Peripheral Neutrophilia With Adverse Angiographic Outcomes in ST-Elevation Myocardial Infarction** ..... 532

Ajay J. Kirtane, Anh Bui, Sabina A. Murphy, Hal V. Barron, and C. Michael Gibson

**Comparison of Visibility and Diagnostic Capability of Noninvasive Coronary Angiography by Eight-Slice Multidetector-Row Computed Tomography Versus Conventional Coronary Angiography** ..... 537

Takao Maruyama, Tohru Yoshizumi, Ritsu Tamura, Shigekazu Takashima, Hiroyuki Toyoshima, Ichiro Konishi, Shizuya Yamashita, and Kouichi Yamasaki

**Quantitative Angiographic and Intravascular Ultrasound Study >5 Years After Directional Coronary Atherectomy** ..... 543

Kenya Nasu, Etsuo Tsuchikane, Nobuhisa Awata, Hiroaki Matsumoto, Atsushi Shiota, Yoshihiro Takeda, and Tohru Kobayashi

**Identification of Proximal Left Anterior Descending Artery Stenosis With Thallium-201 Defect Patterns in Patients With Angina Pectoris** ..... 549



Joon-Kee Yoon, Kyung-Han Lee, Eun Jeong Lee, Young Hwan Kim, Jung-Don Seo, and Byung-Tae Kim

**Associations Among Oxidized Low-Density Lipoprotein Antibody, C-Reactive Protein, Interleukin-6, and Circulating Cell Adhesion Molecules in Patients With Unstable Angina Pectoris** .....554

Young-Cheoul Doo, SangJin Han, Jun-Hee Lee, Goo-Yung Cho, Kyung-Soon Hong, Kyoo-Rok Han, Nam-Ho Lee, Dongjin Oh, Kyu-Hyung Ryu, Chong-Yun Rhim, Kwang-Hwahk Lee, and Yung Lee

**Association of Ferritin and Lipids With C-Reactive Protein** .....559

Arch G. Mainous III, Brian J. Wells, Charles J. Everett, James M. Gill, and Dana E. King

**PREVENTIVE CARDIOLOGY**

**Comparison of Angiographic Findings Among Postmenopausal Women Using Unopposed Estrogen, Estrogen/Progestin Combinations, and Nonusers** .....563

Liudmila Husak, Viola Vaccarino, Emir Veledar, Nancy Murrah, and Nanette K. Wenger

**ARRHYTHMIAS AND CONDUCTION DISTURBANCES**

**Long-Term Rhythm Control of Drug-Refractory Atrial Fibrillation With "Hybrid Therapy" Incorporating Dual-Site Right Atrial Pacing, Antiarrhythmic Drugs, and Right Atrial Ablation** .....569

Nandini Madan and Sanjeev Saxena

**Lack of a Hypotensive Effect With Rapid Administration of a New Aqueous Formulation of Intravenous Amiodarone** .....576

John C. Somberg, Sandor Timar, Steven J. Bailin, Ferenc Lakatos, Charles I. Haffajee, Jeno Tarjan, Walter P. Paladino, Istvan Sarosi, Nicholas Z. Kerin, Jozsef Borbola, Duane E. Bridges, Janos Molnar, and the Amio-Aqueous Investigators

**Psychosocial Factors and Quality of Life in Children and Adolescents With Implantable Cardioverter-Defibrillators** .....582

David Ray DeMaso, Allison Lauretti, Leslie Spieth, Julie R. Van der Feen, Kathleen S. Jay, Kimberlee Gauvreau, Edward P. Walsh, and Charles I. Berul

**HEART FAILURE**

**Peak Exercise Oxygen Pulse and Prognosis in Chronic Heart Failure** .....588

Carl J. Lavie, Richard V. Milani, and Mandeep R. Mehra

**CONGENITAL HEART DISEASE**

**Backscatter Evaluation of Myocardial Functional and Textural Findings in Children With Right Ventricular Pressure and/or Volume Overload** .....594

Giuseppe Pacileo, Giuseppe Limongelli, Marina Verrengia, Juan Gimeno, Giovanni Di Salvo, and Raffaele Calabrò

**HISTORICAL STUDY**

**Endothelial Dysfunction: Discovery and Initial Characterization** .....598

Dean T. Mason

**EDITORIAL**

**Use of Glitazones in Cardiac Patients: A Case for B-Type Natriuretic Peptide Monitoring?** .....600

Malek El Muayed, Victor R. Lavis, Hazim J. Safi, and Francisco Fuentes

**BRIEF REPORTS**

**Effect of Combined Statin and Beta-Blocker Treatment on One-Year Morbidity and Mortality After Acute Myocardial Infarction Associated With Heart Failure** .....603

Aina Hognestad, Kenneth Dickstein, Eivind Myhre, Steven Snapinn, and John Kjekshus, on behalf of the OPTIMAAL Investigators

**Gender and Age Differences in Chief Complaints of Acute Myocardial Infarction (Worcester Heart Attack Study)** .....606

Kerry A. Milner, Viola Vaccarino, Amy L. Arnold, Marjorie Funk, and Robert J. Goldberg

**Comparison of Risk Factors in Acute Myocardial Infarction and Unstable Angina Pectoris in Patients  $\leq 66$  Versus  $> 66$  Years of Age** .....608

Shiro Hoshida, Takahiro Hayashi, Ken Kanamasa, Kinji Ishikawa, Masashi Naka, Takahiko Kawarabayashi, Yoshiaki Yokoi, Mitsuo Matsuda, Yoshiyuki Nagai, and Yoshio Yamada, on behalf of the South-Osaka Acute Coronary Syndrome Study Investigators

**Possible Contribution of C-Reactive Protein Within Coronary Plaque to Increasing Its Own Plasma Levels Across Coronary Circulation** .....611

Tetsunori Ishikawa, Takuroh Imamura, Kinta Hatakeyama, Haruhiko Date, Toshiro Nagashi, Riichirou Kawamoto, Akihiko Matsuyama, Yujiro Asada, and Tanenao Eto

**Relation Between C-Reactive Protein, Treadmill Exercise Testing, and Inducible Myocardial Ischemia** .....614

Jeryes Shehadeh, Basil S. Lewis, Giora Weisz, Miriam David, Tamar Ashkenazi, and David A. Halon

**Effect of Exercise Training on Endothelial Function in Men With Coronary Artery Disease** .....617

David G. Edwards, Richard S. Schofield, Shannon L. Lennon, Gary L. Pierce, Wilmer W. Nichols, and Randy W. Braith

**Comparison of Peripheral Monocyte Counts in Patients With and Without Coronary Spasm and Without Fixed Coronary Narrowing** .....620

MingJui Hung, Li-Tang Kuo, Chi-Wen Cheng, Chih-Ping Chang, and Wen-Jin Cherng

**Comparison of Calcium Scores from Thick- and Thin Image Slice-Computed Tomography Scanning in Predicting Future Coronary Events** ..... 624

Robert C. Detrano, Terry M. Doherty, Min Xiang, Miwa Kawakubo, Laurie LaBree, Eloisa Romero, and Stanley Azen

**Prognostic Value of Neopterin Levels in Treated Patients With Hypertension and Chest Pain But Without Obstructive Coronary Artery Disease** ..... 627

Pablo Avanzas, Ramón Arroyo-Espiguero, Juan Cosín-Sales, Juan Quiles, Emmanouil Zouridakis, and Juan Carlos Kaski

**Predicting Mortality in Patients With ST-Elevation Myocardial Infarction Treated With Primary Percutaneous Coronary Intervention (PAMI Risk Score)** ..... 629

Srinivas Addala, Cindy L. Grines, Simon R. Dixon, Gregg W. Stone, Judith A. Boura, Anthony B. Ochoa, Gregory Pellizzon, William W. O'Neill, and Joel K. Kahn

**Treatment of Very Small Vessels With 2.25-mm Diameter Sirolimus-Eluting Stents (from the RESEARCH Registry)** ..... 633

Pedro A. Lemos, Chourmouzos A. Arampatzis, Francesco Saia, Angela Hoyer, Muzaffer Degertekin, Kengo Tanabe, Chi-Hang Lee, Paul Cummins, Pieter C. Smits, Eugène McFadden, Georgios Sianos, Pim de Feyter, Willem J. van der Giessen, Ron T. van Domburg, and Patrick W. Serruys

**Feasibility of Endovascular Cooling as an Adjunct to Primary Percutaneous Coronary Intervention (Results of the LOWTEMP Pilot Study)** ..... 636

David E. Kandzari, Alan Chu, Bruce R. Brodie, Thomas A. Stuckey, James B. Hermiller, George W. Vetrovec, Karen L. Hannan, Mitchell W. Krucoff, Robert H. Christenson, Raymond J. Gibbons, Kristina N. Sigmon, Jyotsna Garg, Victor Hasselblad, Kenneth Collins, Robert A. Harrington, Peter B. Berger, Nicholas A. Chronos, Judith S. Hochman, and Robert M. Califf

**Relation of Fasting Insulin Plasma Levels to Restenosis After Elective Coronary Stent Implantation in Patients Without Diabetes Mellitus** ..... 639

Peter W. Radke, Marc Voswinkel, Matthias Reith, Axel Kaiser, Philipp K. Haager, Peter Hanrath, and Rainer Hoffmann

**Effectiveness of Ezetimibe in Clinical Practice** ..... 641

Javier Jurado, Richard Seip, and Paul D. Thompson

**Usefulness of a Ventricular Extrastimulus from the Summit of the Ventricular Septum in Diagnosis of Septal Accessory Pathway in Patients With Supraventricular Tachycardia** ..... 643

Takehiko Matsushita, Nitish Badhwar, Kathryn K. Collins, George F. Van Hare, Gaetano Barbato, Byron K. Lee, Randall J. Lee, and Melvin M. Scheinman

**Prognostic Differences Between Atrial Fibrillation and Atrial Flutter** ..... 647

Paul LeLorier, Karin H. Humphries, Andrew Krahn, Stuart J. Connolly, Mario Talajic, Martin Green, Robert Sheldon, Paul Dorian, David Newman, Charles R. Kerr, Raymond Yee, and George J. Klein

**Influence of L-Arginine and Vitamin C on the Autonomic Nervous System in Chronic Heart Failure Secondary to Ischemic Cardiomyopathy** ..... 650

Gianfranco Piccirillo, Quaglione Raffaele, Filippo Fimognari, Antonio Moisè, Malavasi Mario, Marco Lionetti, Camilla Naso, Silvia Di Carlo, Marialuce Nocco, and Damiano Magri

**Comparison of Transthoracic Echocardiography Versus Cardiovascular Magnetic Resonance Imaging for the Assessment of Ventricular Function in Adults After Atrial Switch Procedures for Complete Transposition of the Great Arteries** ..... 654

Lynette W. Lissin, Wei Li, Dan J. Murphy, Jr., Tim Hornung, Lorna Swan, Michael Mullen, Philip Kilner, and Michael A. Gatzoulis

**Magnetic Resonance Imaging Evaluation of Myocardial Perfusion and Viability in Congenital and Acquired Pediatric Heart Disease** ..... 657

Ashwin Prakash, Andrew J. Powell, Rajesh Krishnamurthy, and Tal Geva

**An Echocardiographic Survey of Primary School Children for Bicuspid Aortic Valve** ..... 661

Cristina Basso, Mauro Boschello, Cosimo Perrone, Alessandro Mecenero, Andrea Cera, Dario Bicego, Gaetano Thiene, and Ennio De Dominicis

**Role of Xanthine Oxidase in Conduit Artery Endothelial Dysfunction in Cigarette Smokers** ..... 664

Sashi Guthikonda, Kenneth Woods, Christine A. Sinkey, and William G. Haynes

**READERS' COMMENTS**

**Lack of Adverse Clopidogrel-Atorvastatin Clinical Interaction** ..... 669

**Mechanism of High Brain Natriuretic Peptide in Patients With Atrial Fibrillation** ..... 670

**Reperfusion Arrhythmias and ST-Segment Resolution** ..... 671

**The Electrocardiogram in Hypothermia—the J Wave and the Brugada Syndrome** ..... 671

**MARCH 15, 2004, VOL. 93, NO. 6**

**CORONARY ARTERY DISEASE**

**Predictors of Angina Pectoris Versus Myocardial Infarction from the Women's Health Initiative Observational Study** ..... 673

Judith Hsia, Aaron Aragaki, Michael Bloch, Andrea Z. LaCroix, and Robert Wallace, for the WHI Investigators

**Effect of Clopidogrel Pretreatment on Inflammatory Marker Expression in Patients Undergoing Percutaneous Coronary Intervention** ..... 679

Martin J. Quinn, Deepak L. Bhatt, Frank Zidar, Deepak Vivekananthan, Derek P. Chew, Stephen G. Ellis, Edward Plow, and Eric J. Topol

**Latent Abnormal Fatty Acid Metabolism in Apparently Normal Perfusion During Stress in Patients With Restenosis After Coronary Angioplasty: Assessment by Exercise Stress Thallium-201 and Iodine-123-Labeled 15-(p-iodophenyl)-3-R,S-Methylpentadecanoic Acid-Dual Myocardial Single-Photon Emission Computed Tomography** ..... 685  
Hiromi Iwado, Yasuyoshi Iwado, Koji Ohmori, Katsufumi Mizushige, Kazushi Yukiiri, Yuichiro Takagi, Yoshihiro Nishiyama, Nagara Tamaki, and Masakazu Kohno

**Treatment Program for Erectile Dysfunction in Patients With Cardiovascular Diseases** ..... 689  
Solomon Israilov, Jack Baniel, Joseph Shmueli, Eva Niv, Dov Engelstein, Ephraim Segenreich, and Pinhas M. Livne

**Excimer Laser Angioplasty in Acute Myocardial Infarction (The CARMEL Multicenter Trial)** ..... 694  
On Topaz, Douglas Ebersole, Tony Das, Edwin Alderman, Hooman Madyoon, Kishor Vora, John Baker, David Hilton, and Johannes Dahm

**Usefulness of Plasma Brain Natriuretic Peptide Levels in Predicting Dobutamine-Induced Myocardial Ischemia** ..... 702  
Junko Asada, Hisako Tsuji, Toshiji Iwasaka, James D. Thomas, and Michael S. Lauer

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

**Heart Rate Variability in Atrial Fibrillation Related to Left Atrial Size** ..... 705  
Howard S. Friedman

**Long-Term Alcohol Consumption and the Risk of Atrial Fibrillation in the Framingham Study** ..... 710  
Luc Djoussé, Daniel Levy, Emelia J. Benjamin, Susan J. Bleese, Ana Russ, Martin G. Larson, Joseph M. Massaro, Ralph B. D'Agostino, Philip A. Wolf, and R. Curtis Ellison

## HEART FAILURE

**Quality of Heart Failure Care in Managed Medicare and Medicaid Patients in North Carolina** ..... 714  
Alain G. Bertoni, Vanessa Duren-Winfield, Walter T. Ambrosius, Jill McArdle, Carla A. Sueta, Mark W. Massing, Sharon Peacock, Jennifer Davis, Janet B. Croft, and David C. Goff Jr.

**Attenuation of Biologic Compensatory Action of Cardiac Natriuretic Peptide System With Aging** ..... 719  
Keisuke Kawai, Katsuya Hata, Katsuji Tanaka, Yoshihisa Kubota, Ryuji Inoue, Eisaku Masuda, Toshiyuki Miyazaki, and Mitsuhiro Yokoyama

## CARDIOMYOPATHY

**Evidence of Early Impairments in Both Right and Left Ventricular Inotropic Reserves in Children With Duchenne's Muscular Dystrophy** ..... 724

Gilles Bosser, Hugues Lucron, Jean-Paul Lethor, Guillaume Burger, Françoise Beltramo, Pierre-Yves Marie, and François Marçon

## CONGENITAL HEART DISEASE

**Angiographic Right and Left Ventricular Function in Arrhythmogenic Right Ventricular Dysplasia** ..... 728  
Jean-Louis Hébert, Denis Chemla, Olivier Gérard, Karen Zamani, Jeanine Quillard, Arshid Azarine, Robert Frank, Yves Lecarpentier, and Guy Fontaine

## EDITORIALS

**Role of Angiotensin-Converting Enzyme Inhibitors in the Prevention of Atrial Fibrillation** ..... 734  
Dennis Finkelstein and Paul Schweitzer

**Subclinical Atherosclerosis as a Target of Therapy: Potential Role of Statins** ..... 737  
John J.P. Kastelein, Erik S.G. Stroes, and Eric de Groot

## BRIEF REPORTS

**Comparison of Outcomes Up to Six Months of Heparin-Coated With Noncoated Stents After Percutaneous Coronary Intervention for Acute Myocardial Infarction** ..... 741  
Eli I. Lev, Abid R. Assali, Igai Teplitsky, Eldad Rechavia, David Hasdai, Ofer Sela, Nurit Shor, Alexander Battler, and Ran Kornowski

**Evaluation of Routine Functional Testing After Percutaneous Coronary Intervention** ..... 744  
Mark J. Eisenberg, James C. Blankenship, Thao Huynh, Michael Azrin, Asad Pathan, Steven Sedlis, Manotosh Panja, Mark R. Starling, Rafael Beyar, Arik Azoulay, Joanna Caron, and Louise Pilote, for the ADORE Investigators

**Predictors of Troponin Elevation After Percutaneous Coronary Intervention** ..... 747  
Vikram R. Mandadi, Mary C. DeVoe, John A. Ambrose, Anita M. Prakash, Nikita Varshneya, Randy B. Gould, Tien H. Nguyen, Jean-Pierre M. Geagea, Joseph A. Radojevic, Khashayar Sehat, and Rajat S. Barua

**Incidence, Predictors, and Clinical Significance of Troponin-I Elevation Without Creatine Kinase Elevation Following Percutaneous Coronary Interventions** ..... 750  
Madhu K. Natarajan, Catherine Kretsoulas, James L. Velianou, Shamir R. Mehta, Dan Pericak, and David M. Goodhart

**Prevalence of Troponin-T Elevation During Out-of-Hospital Cardiac Arrest** ..... 754  
Christopher S. Lai, David Hostler, Brian J. D'Cruz, and Clifton W. Callaway

**Relation of Depression to Heart Rate Nonlinear Dynamics in Patients  $\geq 60$  Years of Age With Recent Unstable Angina Pectoris or Acute Myocardial Infarction** ..... 756  
Daniel E. Vigo, Leonardo Nicola Siri, M. Soledad Ladrón de Guevara, José A. Martínez-Martínez, Rodolfo D. Fahrer, Daniel P. Cardinali, Osvaldo Masoli, and Salvador M. Guinjoan

**Treatment of In-Stent Restenosis Using a Stent With Non-Polymer-Based Paclitaxel Elution .....760**

Rainer Hoffmann, Roswitha Langenberg, Peter Radke, Harald Kühl, Jan Ortlepp, Rüdiger Blindt, and Eberhard Grube

**The Effects of Off-Normal Hours, Age, and Gender for Coronary Angioplasty on Hospital Mortality in Patients Undergoing Coronary Angioplasty for Acute Myocardial Infarction .....763**

Mohammad A. Saleem, Hari Kannam, Wilbert S. Aronow, Melvin B. Weiss, Kumar Kalapatapu, Anthony L. Pucillo, and Craig E. Monsen

**Examination of Gender Bias in the Evaluation and Treatment of Angina Pectoris by Cardiologists .....765**

Michael Blum, Martin Slade, Donna Boden, Henry Cabin, and Teresa Caulin-Glaser

**Impact of Age on Hospital Course and Cost of Coronary Artery Bypass Grafting .....768**

Jung H. Chee, Kristian B. Filion, Seema Haider, Louise Pilote, and Mark J. Eisenberg

**Heart Rate Dependent Modification of the QTc Cut-Off Values Can Improve Accurate Evaluation of QT Prolongation .....772**

Tsuneaki Sadanaga, Fumiko Sadanaga, Hiroshi Yao, and Masatoshi Fujishima

**Superior Short-Term Cholesterol Control and Achievement of the Adult Treatment Panel III Low-Density Lipoprotein Goals With Initiation of Statin Therapy by the Time of Hospital Discharge Following Acute Myocardial Infarction .....776**

Kevin A. Bybee, Brian D. Powell, Brent A. Williams, Joseph G. Murphy, Stephen L. Kopecky, and R. Scott Wright

**Initial Low-Density Lipoprotein Response to Statin Therapy Predicts Subsequent Low-Density Lipoprotein Response to the Addition of Ezetimibe .....779**

Paul E. Ziajka, Mary Reis, Sandra Kreul, and Helen King

**Analysis of Pravastatin to Prevent Recurrence of Atrial Fibrillation After Electrical Cardioversion .....780**

Arnliot Tveit, Morten Grundvig, Torstein Gundersen, Paul Vanberg, Anne Grete Semb, Even Holt, and Lars Gullestad

**Effect of Angiotensin-Converting Enzyme Inhibitors, Beta Blockers, Statins, and Aspirin on C-Reactive Protein Levels in Outpatients With Heart Failure .....783**

Karen E. Joynt, Wendy A. Gattis, Vic Hasselblad, Sergey Y. Fuzaylov, Victor L. Serebruany, Paul A. Gurbel, Laura H. Gauden, G. Michael Felker, David J. Whellan, and Christopher M. O'Connor

**Relation Between Pulse Pressure and Survival in Patients With Decompensated Heart Failure .....785**

Doron Aronson and Andrew J. Burger

**Prenatal Molecular Genetic Diagnosis of Congenital Long QT Syndrome by Strategic Genotyping .....788**

David J. Tester, Jorge McCormack, and Michael J. Ackerman

**Skeletal Muscle Hemodynamics and Endothelial Function in Patients After Fontan Operation .....792**

Kei Inai, Yoshimasa Saita, Sho Takeda, Makoto Nakazawa, and Hirotaka Kimura

**Normal Right and Left Ventricular Mass Development During Early Infancy .....797**

James J. Joyce, Patricia I. Dickson, Ning Qi, Julie E. Noble, J. Usha Raj, and Barry G. Boylen

**Effectiveness of Cardiac Surgery in Trisomies 13 and 18 (from the Pediatric Cardiac Care Consortium) .....801**

Eric M. Graham, Scott M. Bradley, Girish S. Shirali, Christine B. Hills, and Andrew M. Atz

**Risk of Recoarctation Should Not Be a Deciding Factor in the Timing of Coarctation Repair .....803**

Jeffrey M. Pearl, Peter B. Manning, Cheri Franklin, Robert Beekman, and Linda Cripe

**Risk for Subsequent Coronary Artery Disease After Preeclampsia .....805**

Leena Haukkanen, Minna Salminen, Hannele Laivuori, Hannu Leinonen, Vilho Hilesmaa, and Risto Kaaja

**FROM THE EDITOR**

**Two More Drugs for Dyslipidemia .....809**

William C. Roberts

**READERS' COMMENTS**

**Questionable Origins of Left Bundle Branch Block .....812**

**Correction .....812**

**APRIL 1, 2004, VOL. 93, NO. 7**

**CORONARY ARTERY DISEASE**

**Correlation of TIMI Risk Score With Angiographic Severity and Extent of Coronary Artery Disease in Patients With Non-ST-Elevation Acute Coronary Syndromes .....813**

Santiago Garcia, Mariana Canoniero, Arley Peter, Eduardo de Marchena, and Alexandre Ferreira

**Impact of the Recommendations for the Redefinition of Myocardial Infarction on Diagnosis and Prognosis in an Unselected United Kingdom Cohort With Suspected Cardiac Chest Pain .....817**

Jasper Trevelyan, Edward W.A. Needham, Stephen C.H. Smith, and Raj K. Mattu

**Activation of the Contact System and Inflammation After Thrombolytic Therapy in Patients With Acute Myocardial Infarction .....822**



Piera Angelica Merlini, Massimo Cugno, Marco L. Rossi, Pietro Agricola, Alessandra Repetto, Raffaella Fetiveau, Paolo Diotallevi, Umberto Canosi, Pier Mannuccio Mannucci, and Diego Ardisino

#### **Very Long Sirolimus-Eluting Stent Implantation for De Novo Coronary Lesions** ..... 826

Muzaffer Degertekin, Chourmouzos A. Arampatzis, Pedro A. Lemos, Francesco Saia, Angela Hoyer, Joost Daemen, Kengo Tanabe, Chi-Hang Lee, Sjoerd J. Hofma, Georgios Sianos, Eugene McFadden, Willem van der Giessen, Pieter C. Smits, Pim J. de Feyter, Ron T. van Domburg, and Patrick W. Serruys

#### **Invasive Therapy Along With Glycoprotein IIb/IIIa Inhibitors and Intracoronary Stents Improves Survival in Non-ST-Segment Elevation Acute Coronary Syndromes: A Meta-Analysis and Review of the Literature** ..... 830

Anthony A. Bavry, Dharam J. Kumbhani, Rene Quiroz, Suneil R. Ramchandani, Satish Kenchaiah, and Elliott M. Antman

#### **Evolution of Angiographic Restenosis Rate and Late Lumen Loss After Intracoronary Beta Radiation for In-Stent Restenotic Lesions** ..... 836

Thomas Schiele, Barbara Pöllinger, Ralf Kantelehnner, Johannes Rieber, Andreas König, Viktória Seelig, Florian Krötz, Hae-Young Sohn, Uwe Siebert, Eckhart Dühmke, Karl Theisen, and Volker Klaus

#### **Tirofiban Therapy for Patients With Acute Coronary Syndromes and Prior Coronary Artery Bypass Grafting in the PRISM-PLUS Trial** ..... 843

Stephen J. Servoss, Ying Wan, Steven M. Snapinn, Peter M. DiBattiste, Xue-Qiao Zhao, Pierre Theroux, Ik-Kyung Jang, and James L. Januzzi, Jr.

### **PREVENTIVE CARDIOLOGY**

#### **Effect of Fenofibrate-Mediated Increase in Plasma Homocysteine on the Progression of Coronary Artery Disease in Type 2 Diabetes Mellitus** ..... 848

Jacques Genest, Jiri Frohlich, and George Steiner

### **HEART FAILURE**

#### **Relation Between Contractile Reserve and Improvement in Left Ventricular Function With Beta-Blocker Therapy in Patients With Heart Failure Secondary to Ischemic or Idiopathic Dilated Cardiomyopathy** ..... 854

Frank F. Seghato, Dipan J. Shah, Silvia Diluzio, David Bello, Maryl R. Johnson, William G. Coits, Jenny A. O'Donohue, Robert O. Bonow, Mihai Gheorghiade, and Vera H. Rigolin

#### **Comparison of Benefits from Cardiac Resynchronization Therapy in Patients With Ischemic Cardiomyopathy Versus Idiopathic Dilated Cardiomyopathy** ..... 860

Sander G. Molhoek, Jeroen J. Bax, Lieselot van Erven, Marianne Bootsma, Eric Boersma, Paul Steendijk, Ernst E. van der Wall, and Martin J. Schalij

### **CARDIOMYOPATHY**

#### **Diagnosis of Cardiac Amyloidosis Based on the Myocardial Velocity Profile in the Hypertrophied Left Ventricular Wall** ..... 864

Takashi Oki, Hideji Tanaka, Hirotsugu Yamada, Tomotsugu Tabata, Yoshifumi Oishi, Takeo Ishimoto, Norio Nagase, Hisanori Shinohara, Koichi Sakabe, and Nobuo Fukuda

#### **Prevalence of Ventricular Diastolic Dysfunction in Asymptomatic, Normotensive Patients With Diabetes Mellitus** ..... 870

John K. Boyer, Srihari Thanigaraj, Kenneth B. Schechtman, and Julio E. Pérez

### **CONGENITAL HEART DISEASE**

#### **Early Electrical and Geometric Changes After Percutaneous Closure of Large Atrial Septal Defect** ... 876

Giuseppe Santoro, Marco Pascotto, Berardo Sarubbi, Maurizio Cappelli Bigazzi, Raimondo Calvanese, Carola Iacono, Carlo Pisacane, Maria Teresa Palladino, Giuseppe Pacileo, Maria Giovanna Russo, and Raffaele Calabrò

### **MISCELLANEOUS**

#### **Polyunsaturated Fatty Acids Acutely Suppress Antibodies to Malondialdehyde-Modified Lipoproteins in Patients With Vascular Disease** ..... 881

W. Quinten Gradek, Matthey T. Harris, Najat Yahia, Warren W. Davis, Ngoc-Anh Le, and W. Virgil Brown

#### **Accuracy and Pitfalls of Early Diastolic Motion of the Mitral Annulus for Diagnosing Constrictive Pericarditis by Tissue Doppler Imaging** ..... 886

Partho P. Sengupta, Jagdish C. Mohan, Vimal Mehta, Ramesh Arora, Natesa G. Pandian, and Bijoy K. Khandheria

### **INTERVIEW**

#### **ROBERT ALAN VOGEL, MD: A Conversation With the Editor** ..... 891

William C. Roberts

### **BRIEF REPORTS**

#### **Echocardiographic Evaluation of Spontaneous Recovery of Right Ventricular Systolic and Diastolic Function in Patients With Acute Right Ventricular Infarction Associated With Posterior Wall Left Ventricular Infarction** ..... 911

Dimitrios G. Ketikoglou, Haralampos I. Karvounis, Christodoulos E. Papadopoulos, Theodora A. Zaglavara, Georgios K. Efthimiadis, Georgios E. Parharidis, and Georgios E. Louridas

#### **Effectiveness of Tirofiban for Failed Thrombolysis During Acute Myocardial Infarction** ..... 914

Alfredo Vetrano, Raffaele Carotenuto, Fabrizio Corsini, Margherita Schioppa, Angela Martone, Saverio Melorio, Francesca Sideri, Salvatore Romano, Carmelo Chieffo, and Giancarlo Corsini

**Comparison of Differences in Outcome After Percutaneous Coronary Intervention in Men Versus Women <40 Years of Age** ..... 916

Alexandra J. Lansky, Roxana Mehran, George Dangas, Ecaterina Cristea, Kazuyuki Shirai, Ricardo Costa, Costantino Costantini, Yoshihiro Tsuchiya, Stephane Carlier, Gary Mintz, Yves Coltin, Gregg Stone, Jeffrey Moses, and Martin B. Leon

**Usefulness of Insulin Resistance Measured by Homeostasis Model Assessment in Predicting Restenosis After Coronary Stent Placement in Nondiabetic Patients** ..... 920

Makoto Sekiguchi, Masahiko Kurabayashi, Hitoshi Adachi, Hiroshi Hoshizaki, Shigeru Oshima, and Koichi Taniguchi

**Usefulness of Transthoracic Echocardiography in Demonstrating Coronary Blood Flow After Coronary Artery Bypass Grafting** ..... 923

Daniel Wing Chong Ng, Konstantinos Vlachonassios, Anoshie R. Nimalasuriya, Vu T. Nguyen, Charmi Wijesekera, Aameera Khan, and P. Anthony N. Chandraratna

**Relation of Homocysteine and C-Reactive Protein to Urinary Albumin Loss** ..... 926

Niranjan Seshadri, Adrian W. Messerli, Naveen Acharya, Gregory L. Pearce, Donald W. Jacobsen, Marc A. Pohl, Killian Robinson, and Dennis L. Sprecher

**Incidence and Predictors of Atrial Fibrillation After Aortic Repairs** ..... 928

Christian Perzanowski, Siddarth Gandhi, and Ramdas G. Pai

**Incidence and Characteristics of Maternal Cardiac Arrhythmias During Labor** ..... 931

Ayal Romem, Yitzhak Romem, Miriam Katz, and Alexander Battler

**Effect of Oral L-arginine on Blood Pressure and Symptoms and Endothelial Function in Patients With Systemic Hypertension, Positive Exercise Tests, and Normal Coronary Arteries** ..... 933

Altin Palloshi, Gabriele Fragasso, PierMarco Piatti, Lucilla D. Monti, Emanuela Setola, Giampiero Valsecchi, Elena Galluccio, Sergio L. Chierchia, and Alberto Margonato

**Usefulness of Percutaneous Balloon Mitral Commissurotomy in Preventing the Development of Atrial Fibrillation in Patients With Mitral Stenosis** ..... 936

Richard A. Krasuski, Manish D. Assar, Andrew Wang, Katherine B. Kisslo, Cynthia Pierce, J. Kevin Harrison, and Thomas M. Bashore

**Effects of Upper Extremity Exercise Training on Peak Aerobic and Anaerobic Fitness in Patients After Transplantation** ..... 939

Darren E.R. Warburton, A. William Sheel, Alastair N.H. Hodges, Ian B. Stewart, Eric M. Yoshida, Robert D. Levy, and Donald C. McKenzie

**Weaning and Discontinuation of Epoprostenol in Children With Idiopathic Pulmonary Arterial Hypertension Receiving Concomitant Bosentan** ..... 943

D. Dunbar Ivy, Aimee Doran, Lori Claussen, Deborah Bingaman, and Anji Yetman

**Brachial Artery Endothelial Function in Residents and Fellows Working Night Shifts** ..... 947

Offer Amir, Sharon Alroy, Jorge E. Schliamser, Ihab Asmir, Avinoam Shiran, Moshe Y. Flugelman, David A. Halon, and Basil S. Lewis

**Left Ventricular Thin-Point Detection Using Multidetector Spiral Computed Tomography** ..... 949

Maros Ferencik, Suhny Abbata, Udo Hoffmann, Ricardo C. Cury, Thomas J. Brady, and Stephan Achenbach

**READER'S COMMENT**

**Methadone and QT Prolongation: A Dose-Dependent Effect** ..... 952

**APRIL 15, 2004, VOL. 93, NO. 8**

**CORONARY ARTERY DISEASE**

**Comparison of Directional Coronary Atherectomy and Stenting Versus Stenting Alone for the Treatment of De Novo and Restenotic Coronary Artery Narrowing** ..... 953

Goran Stankovic, Antonio Colombo, Robert Bersin, Jeffrey Popma, Samin Sharma, Louis A. Cannon, Paul Gordon, Dean Nukta, Gregory Braden, and Michael Collins, for the AMIGO Investigators

**Minimally Invasive Coronary Artery Bypass Grafting Versus Stenting for Patients With Proximal Left Anterior Descending Coronary Artery Disease** ..... 959

Kazuyuki Shirai, Alexandra J. Lansky, Roxana Mehran, George D. Dangas, Costantino O. Costantini, Martin Fahy, Steven Slack, Gary S. Mintz, Gregg W. Stone, and Martin B. Leon

**Relation of Final Lumen Dimensions in Saphenous Vein Grafts After Stent Implantation to Outcome** ..... 963

Ioannis Iakovou, George Dangas, Gary S. Mintz, Roxana Mehran, Yoshio Kobayashi, Eve D. Aymong, Makoto Hirose, Dale T. Ashby, Alexandra J. Lansky, Gregg W. Stone, Martin B. Leon, and Jeffrey W. Moses

**Comparison of the Effects of Beta Blockers and Calcium Antagonists on Cardiovascular Events After Acute Myocardial Infarction in Japanese Subjects** ..... 969

The Japanese  $\beta$ -blockers and Calcium Antagonists Myocardial Infarction (JBCMI) Investigators

**Usefulness of Impairment of Coronary Microcirculation in Predicting Left Ventricular Dilation After Acute Myocardial Infarction** ..... 974

Yasunori Shintani, Hiroshi Ito, Katsuomi Iwakura, Shigeo Kawano, Koji Tanaka, Tohru Masuyama, Masatsugu Hori, and Kenshi Fujii

<b>Final Results of the ReoPro Readministration Registry</b> .....	979
Jean-Pierre Dery, Gregory A. Braden, A. Michael Lincoff, Dean J. Kereiakes, Kevin Browne, Thomas Little, Barry S. George, David C. Sane, Douglas B. Cines, Mark B. Effron, Mary Ann Mascelli, Mary Ann Langrall, Lakshmi Damaraju, Elliot S. Barnathan, and James E. Tcheng, on behalf of the ReoPro Readministration Registry Investigators	

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

<b>Autonomic Responses to Single- and Dual-Chamber Pacing</b> .....	985
John A. Chilaadakis, Andreas Kalogeropoulos, and Antonis S. Manolis	

## SYSTEMIC HYPERTENSION

<b>Efficacy of Eplerenone Versus Enalapril as Monotherapy in Systemic Hypertension</b> .....	990
Gordon H. Williams, Ellen Burgess, Rainer E. Kolloch, Luis Miguel Ruilope, Joanna Niegowska, Mark S. Kipnes, Barbara Roniker, Jeffrey L. Patrick, and Scott L. Krause	

<b>Maladaptive Arterial Remodeling With Systemic Hypertension Associated With Increased Concentrations in Blood of Plasminogen Activator Inhibitor Type-1 (PAI-1)</b> .....	997
Tomoo Furumoto, Satoshi Fujii, Keiko Nishihara, Satoshi Yamada, Kaoru Komuro, Kazutomo Goto, Hisao Onozuka, Taisei Mikami, Akira Kitabatake, and Burton E. Sobel	

<b>Comparison of B-Type Natriuretic Peptide Levels in Patients With Heart Failure With Versus Without Mitral Regurgitation</b> .....	1002
Susan A. Mayer, James A. DeLemos, Sabina A. Murphy, Sandra Brooks, Brad J. Roberts, and Paul A. Grayburn	

## HEART FAILURE

<b>Interleukin-6 (IL-6) Expression and Natural Killer (NK) Cell Dysfunction and Anergy in Heart Failure</b> .....	1007
Donna L. Vredevoe, Mel Widawski, Gregg C. Fonarow, Michele Hamilton, Otoniel Martínez-Maza, and Julia R. Gage	

## MISCELLANEOUS

<b>Effect of Short-Term Weight Loss on the Metabolic Syndrome and Conduit Vascular Endothelial Function in Overweight Adults</b> .....	1012
Robert D. Brook, Robert L. Bard, Lynn Glazewski, Christine Kehr, Peter F. Bodary, Daniel L. Eitzman, and Sanjay Rajagopalan	

## METHODS

<b>Assessment of Prolonged QT and JT Intervals in Ventricular Conduction Defects</b> .....	1017
Pentti M. Rautaharju, Zhu-Ming Zhang, Ron Prineas, and Gerardo Heiss	

## CARDIOVASCULAR PHARMACOLOGY

<b>Cardiovascular Effects of Caffeine in Men and Women</b> .....	1022
Terry R. Hartley, William R. Lovullo, and Thomas L. Whitsett	

## BRIEF REPORTS

<b>Prognostic Implication of Early Ejection Fraction on Long-Term Mortality and Quality of Life Following Out-of-Hospital Cardiac Arrest</b> .....	1027
Akbar H. Khan, T. Jared Bunch, Roger D. White, and Douglas L. Packer	

<b>Effect of Carotid Atherosclerosis Screening on Risk Stratification During Primary Cardiovascular Disease Prevention</b> .....	1030
Robert L. Bard, Henna Kalsi, Melvyn Rubenfire, Thomas Wakefield, Beverly Fex, Sanjay Rajagopalan, and Robert D. Brook	

<b>Comparison of Rheolytic Thrombectomy Before Direct Infarct Artery Stenting Versus Direct Stenting Alone in Patients Undergoing Percutaneous Coronary Intervention for Acute Myocardial Infarction</b> .....	1033
David Antoniucci, Renato Valentini, Angela Migliorini, Guido Parodi, Gentian Memisha, Giovanni Maria Santoro, and Roberto Sciagra	

<b>Effect of Hypnotic Sedation During Percutaneous Transluminal Coronary Angioplasty on Myocardial Ischemia and Cardiac Sympathetic Drive</b> .....	1035
Roberto Baglini, Marco Sesana, Cinzia Capuano, Tomaso Gnechi-Ruscone, Ugo Limbruno, and Gian Battista Danzi	

<b>Analysis of Nonintervention Strategy for In-Stent Restenosis in Pauci- or Asymptomatic Patients</b> .....	1038
Hélène Eltchaninoff, Raphaëlle Carlot, Christophe Tron, Carlos Sanchez-Giron, Laurent Sebah, Carla Agatiello, and Alain Cribier	

<b>A Trial of Omega-3 Fatty Acids for Prevention of Hypertension</b> .....	1041
Rachel S. Dokholyan, Christine M. Albert, Lawrence J. Appel, Nancy R. Cook, Paul K. Whelton, and Charles H. Hennekens	

<b>Effect of Low-Density Lipoprotein Cholesterol Apheresis on Blood Viscosity</b> .....	1044
Patrick M. Moriarty, Cheryl A. Gibson, Kenneth R. Kensey, and William Hogenauer	

<b>Polymorphisms in the Multidrug Resistance-1 (MDR1) Gene Influence the Response to Atorvastatin Treatment in a Gender-Specific Manner</b> .....	1046
Kouji Kajinami, Margaret E. Brousseau, Jose M. Ordovas, and Ernst J. Schaefer	

- Short-Duration Spaceflight Does Not Prolong QTc Intervals in Male Astronauts** ..... 1051  
Brett M. Mitchell and Janice V. Meck

- Bradycardia During Therapy for Multiple Myeloma With Thalidomide** ..... 1052  
Ibrahim Elias Fahdi, Venkat Gaddam, Jorge F. Saucedo, Channarayana V. Kishan, Keyur Vyas, Matthew G. Deneke, Hani Razek, Brett Thorn, Joseph K. Bissett, Elias Anaisse, Bart Barlogie, and Jawahar L. Mehta

- Relation of Anemia to Diastolic Heart Failure and the Effect on Outcome** ..... 1055  
Steffen Brucks, William C. Little, Tania Chao, Ronald L. Rideman, Bharathi Upadhy, Deborah Wesley-Farrington, and David C. Sane

- Potentials and Limitations of Color M-Mode and Tissue Doppler Indexes in Identifying Pseudonormal Mitral Filling Pattern in Patients With Acute Symptoms of Heart Failure and Preserved Left Ventricular Systolic Function** ..... 1057  
Stephane Arques, Pierre Ambrosi, Emmanuel Roux, and Gilbert Habib

- Value of Exercise Echocardiography in Rheumatic Mitral Stenosis With and Without Significant Mitral Regurgitation** ..... 1060  
Eli I. Lev, Alex Sagie, Mordehay Vaturi, Noga Sela, Alexander Battler, and Yaron Shapira

- Permanent Pacing for Complete Atrioventricular Block After Nonsurgical (Alcohol) Septal Reduction in Patients With Obstructive Hypertrophic Cardiomyopathy** ..... 1064  
Wibke Reinhard, Folkert J. Ten Cate, Marcoen Scholten, Lotte E. de Laat, and Jeroen Vos

- Presentation, Natural History, and Outcome in Children and Adolescents With Double Orifice Mitral Valve** ..... 1067  
Eli Zalzstein, Robert Hamilton, Nili Zucker, Aviva Levitas, and Gil J. Gross

- Usefulness of a Hand-Carried Cardiac Ultrasound Device to Detect Clinically Significant Valvular Regurgitation in Hospitalized Patients** ..... 1069  
Sergio L. Kobal, Kirsten Tolstrup, Huai Luo, Yoram Neuman, Takashi Miyamoto, James Mirocha, Tasneem Z. Naqvi, and Robert J. Siegel

- Usefulness of Tissue Doppler Imaging for Assessing Aortic Wall Stiffness in Children With the Marfan Syndrome** ..... 1072  
Kenji Harada, Kenji Yasuoka, and Yoichi Shimada

- The Physician Who Invented Basketball** ..... 1075  
John D. Cantwell

#### CASE REPORT

- Dobutamine-Induced Eosinophilia** ..... 1078  
Osama M. El-Sayed, Rehab R. Abdelfattah, Robert Barcelona, and Carl V. Leier

#### READER'S COMMENT

- Cardiac Rehabilitation and Depression** ..... 1080

APRIL 22, 2004, VOL. 93 (8A)

- The Role of Nutritional Supplements with Essential Amino Acids in Patients with Cardiovascular Disease and Diabetes Mellitus**

MAY 1, 2004, VOL. 93, NO. 9

#### CORONARY ARTERY DISEASE

- Myocardial Perfusion Grade and Survival After Percutaneous Transluminal Coronary Angioplasty in Patients With Cardiogenic Shock** ..... 1081  
Giuseppe Tarantini, Angelo Ramondo, Massimo Napodano, Claudio Bilato, Gianbattista Isabella, Renato Razzolini, and Sabino Iliceto

- Usefulness and Safety of Percutaneous Myocardial Laser Revascularization for Refractory Angina Pectoris** ..... 1086  
Mohammed Salem, Svein Rotevatn, Sindre Stavnes, Magne Brekke, Stein Emil Vollset, and Jan Erik Nordrehaug

- Comparison of Bivalirudin Versus Heparin During Percutaneous Coronary Intervention (the Randomized Evaluation of PCI Linking Angiomax to Reduced Clinical Events [REPLACE]-1 Trial)** ..... 1092  
A. Michael Lincoff, John A. Bittl, Neal S. Kleiman, Ian J. Sarembock, J. Daniel Jackman, Sameer Mehta, Mark A. Tannenbaum, Alan L. Niederman, William B. Bachinsky, J. Tift-Mann III, H. Graham Parker, Dean J. Kereiakes, Robert A. Harrington, Frederick Feit, Elizabeth S. Maieron, Derek P. Chew, and Eric J. Topol, for the REPLACE-1 Investigators

- Validation of Viability Assessment by Electromechanical Mapping by Three-Dimensional Reconstruction With Dobutamine Stress Echocardiography in Patients With Coronary Artery Disease** ..... 1097  
Athena Poppas, Florence H. Sheehan, Mark Reisman, Verna Harms, and Ran Kornowski

- Effect of Acute Myocardial Infarction on the Utility of Fractional Flow Reserve for the Physiologic Assessment of the Severity of Coronary Artery Narrowing** ..... 1102  
J. Christopher McClish, Michael Ragosta, Eric R. Powers, Kurt G. Barringhaus, Lawrence W. Gimple, Joshua Fischer, James Garnett, Mir Siadat, Ian J. Sarembock, and Habib Samady

- Spectrum of Remodeling Behavior Observed With Serial Long-Term ( $\geq 12$  Months) Follow-Up Intravascular Ultrasound Studies in Left Main Coronary Arteries** ..... 1107  
Clemens von Birgelen, Marc Hartmann, Gary S. Mintz, Dirk Böse, Holger Eggebrecht, Mario Gössl, Till Neumann, Dietrich Baumgart, Heinrich Wieneke, Axel Schmermund, Michael Haude, and Raimund Erbel



**Differences in Heart Rate Turbulence Between Patients With Coronary Artery Disease and Patients With Ventricular Arrhythmias But Structurally Normal Hearts** ..... 1114

Alfonso Sestito, Sergio Valsecchi, Fabio Infusino, Gregory Angelo Sgueglia, Fulvio Bellocchi, Paolo Zecchi, Filippo Crea, and Gaetano Antonio Lanza

**PREVENTIVE CARDIOLOGY**

**Meta-Analysis of Observational Studies on Fish Intake and Coronary Heart Disease** ..... 1119

Seamus P. Whelton, Jiang He, Paul K. Whelton, and Paul Muntner

**HEART FAILURE**

**Statin Therapy Is Associated With Lower Mortality Among Patients With Severe Heart Failure** ..... 1124

Dariusz Mozaffarian, Regina Nye, and Wayne C. Levy

**Comparative Accuracy of B-Type Natriuretic Peptide and Tissue Doppler Echocardiography in the Diagnosis of Congestive Heart Failure** ..... 1130

Hisham Dokainish, William A. Zoghbi, Nasser M. Lakkis, Miguel A. Quinones, and Sherif F. Nagueh

**CARDIOMYOPATHY**

**T-Wave Axis Deviation as an Independent Predictor of Mortality in Chronic Chagas' Disease** ..... 1136

Gil F. Salles, Sergio S. Xavier, Andrea S. Sousa, Alejandro Hasslocher-Moreno, and Claudia R.L. Cardoso

**CONGENITAL HEART DISEASE**

**Long-Term Outcome and Quality of Life in Adult Patients After the Fontan Operation** ..... 1141

Annemien E. van den Bosch, Jolien W. Roos-Hesselink, Ron van Domburg, Ad J.J.C. Bogers, Maarten L. Simoons, and Folkert J. Meijboom

**BRIEF REPORTS**

**Coronary Artery Calcium Volume Scores on Electron Beam Tomography in 12,936 Asymptomatic Adults** ..... 1146

Khurram Nasir, Paolo Raggi, John A. Rumberger, Joel B. Braunstein, Wendy S. Post, Matthew J. Budoff, and Roger S. Blumenthal

**Relation of Coronary Calcium Scores by Electron Beam Tomography to Obstructive Disease in 2,115 Symptomatic Patients** ..... 1150

Andreas Knez, Alexander Becker, Alexander Leber, Carl White, Christoph R. Becker, Maximilian F. Reiser, Gerhard Steinbeck, and Peter Boekstegers

**Interscan Variability of Coronary Artery Calcium Quantification Using an Electrocardiographically Pulsed Spiral Computed Tomographic Protocol** ..... 1153

Kevin W. Moser, Timothy M. Bateman, James H. O'Keefe, Jr., and A. Iain McGhie

**Left Atrium Remodeling After Acute Myocardial Infarction (Results of the GISSI-3 Echo Substudy)** ..... 1156

Bogdan A. Popescu, Franco Macor, Francesco Antonini-Canterin, Pantaleo Giannuzzi, Pier L. Temporelli, Enzo Bosimini, Francesco Gentile, Aldo P. Maggioni, Luigi Tavazzi, Rita Piazza, Luigi Ascione, Ioana Stoian, Eugenio Cervesato, and Gian L. Nicolosi, for the GISSI-3 Echo Substudy Investigators

**Usefulness of Myocardial Contrast Echocardiography Derived Coronary Flow Reserve to Accurately Determine Severity of Left Anterior Descending Coronary Artery Stenosis** ..... 1159

Michael Hickman, Paramjit Jeetley, and Roxy Senior

**Comparison of Interventional Versus Conservative Treatment of Isolated Ostial Lesions of Coronary Diagonal Branch Arteries** ..... 1162

Martin Brueck, Martin Heidt, Wilfried Kramer, and Josef Ludwig

**Relation of Coronary Artery Ectasia to Diabetes Mellitus** ..... 1165

Aristides E. Androulakis, Georgios K. Andrikopoulos, Athanasios N. Kartalis, Pavlos N. Stogiannos, Andreas A. Katsaros, Dimitrios N. Syrogiannidis, Eustratios N. Tapanlis, Christodoulos Stefanadis, and Ioannis E. Kallikazaros

**Effects of Race on Lipid-Lowering Management in Hospitalized Patients With Coronary Heart Disease** ..... 1167

Daniel D. Dressler and Terry A. Jacobson

**Impact of Insulin-Requiring Diabetes Mellitus on Effectiveness of Reperfusion and Outcome of Patients Undergoing Primary Percutaneous Coronary Intervention for Acute Myocardial Infarction** ..... 1170

David Antoniucci, Renato Valenti, Angela Migliorini, Guido Parodi, Guia Moschi, Gentian Memisha, Giovanni Maria Santoro, and Giampaolo Cerisano

**Early Recurrence of Arrhythmia in Patients Taking Amiodarone or Class IC Agents for Treatment of Atrial Fibrillation or Atrial Flutter** ..... 1173

Thomas H. Hauser, Duane S. Pinto, Mark E. Josephson, and Peter Zimetbaum

**Relation of an Exaggerated Rise in White Blood Cells After Coronary Bypass or Cardiac Valve Surgery to Development of Atrial Fibrillation Postoperatively** ... 1176

Raed H. Abdelhadi, Hitiinder S. Gurm, David R. Van Wagoner, and Mina K. Chung

**Usefulness of Echocardiographic Tissue Synchronization Imaging To Predict Acute Response to Cardiac Resynchronization Therapy** ..... 1178

John Gorcsan III, Hideaki Kanzaki, Raveen Bazaz, Kaoru Dohi, and David Schwartzman

- Relation Between QT Duration and Mortality in an Elderly Japanese Population** ..... 1182  
Shuhei Nakanishi, Michiko Yamada, Nobuaki Hattori, and Gen Suzuki

- Long-Term Prognosis of Early and Late Prosthetic Valve Endocarditis** ..... 1185  
Juan C. Castillo, Manuel P. Anguita, Francisco Torres, Dolores Mesa, Manuel Franco, Emilio González, Ignacio Muñoz, and Federico Vallés

- Cardiopulmonary Exercise Testing Before and One Year After Mitral Valve Repair for Severe Mitral Regurgitation** ..... 1187  
Hyun-Joang Kim, Seok Jin Ahn, Seung Woo Park, Byung Ryul Cho, Jidong Sung, Sun-Hee Hong, Pyo Won Park, and Kyung Pyo Hong

- Familial Clustering of Autoimmune Diseases in Patients With Dilated Cardiomyopathy** ..... 1189  
Constantinos J. Limas, Panayotis Iakavis, Alexandros Anyfantakis, Christos Kroupis, and Dennis V. Cokkinos

- Long-Term Follow-Up of Implantable Cardioverter Defibrillator Therapy for Hypertrophic Cardiomyopathy** ..... 1192  
Irangi Jayatilake, Alessandra Doolan, Jodie Ingles, Mark McGuire, Virginia Booth, David R. Richmond, and Christopher Semsarian

- Regional Differences in Rates of Diagnosis and Mortality of Pulmonary Thromboembolism** ..... 1194  
Paul D. Stein, Fadi Kayali, and Ronald E. Olson

- Estimated Case Fatality Rate of Pulmonary Embolism, 1979 to 1998** ..... 1197  
Paul D. Stein, Fadi Kayali, and Ronald E. Olson

#### READER'S COMMENT

- Anti-Inflammatory and Antioxidant Actions of Statins May Favorably Affect Atrial Remodeling in Atrial Fibrillation** ..... 1200

#### MAY 6, 2004, VOL. 93, NO. (9A)

- Carvedilol: Its Role in Cardiovascular Medicine**

#### MAY 15, 2004, VOL. 93, NO. 10

##### CORONARY ARTERY DISEASE

- Methylenetetrahydrofolate Reductase Gene C677T and A1298C Polymorphisms, Plasma Homocysteine, Folate, and Vitamin B<sub>12</sub> Levels and the Extent of Coronary Artery Disease** ..... 1201  
Klaus Kölling, Gjin Ndrepepa, Werner Koch, Siegmund Braun, Julinda Mehili, Albert Schömig, and Adnan Kastrati

- Usefulness of Myocardial Contrast Echocardiography in Predicting Collateral Blood Flow in the Presence of a Persistently Occluded Acute Myocardial Infarction-Related Coronary Artery** ..... 1207  
Rajesh Janardhanan, Leah Burden, and Roxy Senior

- Quantitative Myocardial Contrast Echocardiography for Prediction of Thrombolysis in Myocardial Infarction Flow in Acute Myocardial Infarction** ..... 1212  
Stuart Moir, Brian Haluska, Dominic Leung, Richard Lim, Paul Garrahy, and Thomas H. Marwick

- Care Concordant With Guidelines Predicts Decreased Long-Term Mortality in Patients With Unstable Angina Pectoris and Non-ST-Elevation Myocardial Infarction** ..... 1218  
Larry A. Allen, Christopher J. O'Donnell, Robert P. Giugliano, Carlos C. Camargo, Jr., and Donald M. Lloyd-Jones

- Use of a Scoring Model Combining Clinical, Exercise Test, and Echocardiographic Data to Predict Mortality in Patients With Known or Suspected Coronary Artery Disease** ..... 1223  
Abdou Elhendy, Douglas W. Mahoney, Robert B. McCully, James B. Seward, Kelli N. Burger, and Patricia A. Pellikka

- Impact of Body Mass Index on In-Hospital Outcomes Following Percutaneous Coronary Intervention (Report from the New York State Angioplasty Registry)** ..... 1229  
Robert M. Minutello, Eric T. Chou, Mun K. Hong, Geoffrey Bergman, Manish Parikh, Frank Iacovone, and S. Chiu Wong

- Randomized Comparison of Balloon Angioplasty Versus Silicon Carbon-Coated Stent Implantation for De Novo Lesions in Small Coronary Arteries** ..... 1233  
Clara Hanekamp, Jacques Koolen, Hans Bonnier, Keith Oldroyd, Menko-Jan de Boer, Bernd Heublein, and Cees Visser, for the Small Vessel Study Group

##### PREVENTIVE CARDIOLOGY

- C-Reactive Protein Levels Among Women of Various Ethnic Groups Living in the United States (from The Women's Health Study)** ..... 1238  
Michelle A. Albert, Robert J. Glynn, Julie Buring, and Paul M. Ridker

##### ARRHYTHMIAS AND CONDUCTION DISTURBANCES

- Systolic and Diastolic Regional Myocardial Motion of Pacing-Induced Versus Idiopathic Left Bundle Branch Block With and Without Left Ventricular Dysfunction** ..... 1243  
Soo-Jin Kang, Jae-Kwan Song, Hyun Suk Yang, Jong-Min Song, Duk-Hyun Kang, Kyoung-Suk Rhee, Gi-Byoung Nam, Kee-Joon Choi, Jae-Joong Kim, and You-Ho Kim

**Relation Between Achieved Heart Rate and Outcomes in Patients With Atrial Fibrillation (from the Atrial Fibrillation Follow-up Investigation of Rhythm Management [AFFIRM] Study) .....** 1247

Howard A. Cooper, Dennis A. Bloomfield, David E. Bush, Michael S. Katcher, Michele Rawlins, Joseph D. Sacco, Mary Chandler, and the AFFIRM Investigators

**HEART FAILURE**

**Relation of Unrecognized Hypervolemia in Chronic Heart Failure to Clinical Status, Hemodynamics, and Patient Outcomes .....** 1254

Ana Silvia Androne, Katarzyna Hryniewicz, Alhakam Hudaihed, Donna Mancini, John Lamanca, and Stuart D. Katz

**Role of Adenosine Monophosphate Deaminase 1 Gene Polymorphism in Patients With Congestive Heart Failure (Influence on Tumor Necrosis Factor- $\alpha$  Level and Outcome) .....** 1260

Anja Gastmann, Holger H. Sigusch, Andreas Henke, Dirk Reinhardt, Ralf Surber, Oliver Gastmann, and Hans R. Figulla

**METHODS**

**Usefulness of Ultrasound Lung Comets as a Nonradiologic Sign of Extravascular Lung Water .....** 1265

Zoltan Jambrik, Simonetta Monti, Vincenzo Coppola, Eustachio Agricola, Gaetano Mottola, Massimo Miniati, and Eugenio Picano

**BRIEF REPORTS**

**Incidence of Thrombotic Stent Occlusion During the First Three Months After Sirolimus-Eluting Stent Implantation in 500 Consecutive Patients .....** 1271

Evelyn Regar, Pedro A. Lemos, Francesco Saia, Muzaffer Degertekin, Kengo Tanabe, Chi-Hang Lee, Chourmouzas A. Arampatzis, Angela Hoyer, Georgios Sianos, Pim de Feyter, Willem J. van der Giessen, Peter C. Smits, Ron T. van Domburg, and Patrick W. Serruys

**Usefulness of Myocardial Viability or Ischemia in Predicting Long-Term Survival for Patients With Severe Left Ventricular Dysfunction Undergoing Revascularization .....** 1275

Lawrence Liao, Christopher H. Cabell, James G. Jollis, Eric J. Velazquez, William T. Smith IV, Kevin J. Anstrom, Paul A. Pappas, Thomas Ryan, Joseph A. Kisslo, and Carolyn K. Landolfo

**Comparative Pharmacodynamic Evaluation of Eptifibatide and Tirofiban HCl in Patients Undergoing Percutaneous Coronary Intervention (The TAM1 Study) .....** 1279

Jorge F. Saucedo, Luis Garza, David C. Wolford, Stephen L. Cook, Kodangudi B. Ramanathan, Zakaria Matin, Frank A. McGrew, Mary V. Jacoski, and Lisa K. Jennings, for the Tennessee-Arkansas-Mississippi (TAM) Clinical Research Consortium

**Comparison of Treatment Outcomes in Patients  $\geq 80$  Years Undergoing Transradial Versus Transfemoral Coronary Intervention .....** 1282

W. Peter Klink, J. David Hilton, Rebecca N. Warburton, William P. Warburton, and Ren P. Tan

**Gender and Place of Death from Coronary Artery Disease in Washington State .....** 1286

Charles Maynard

**Educational Attainment and Myocardial Infarct-Related Congestive Heart Failure (The Determinants of Myocardial Infarction Onset Study) .....** 1288

Kenneth J. Mukamal, Malcolm MacLure, James E. Muller, Jane B. Sherwood, and Murray A. Mittleman

**Effects of Daily Stress on Autonomic Cardiac Control in Coronary Artery Disease Patients .....** 1299

Simon L. Bacon, Lana L. Watkins, Michael Babyak, Andrew Sherwood, Junichiro Hayano, Alan L. Hinderliter, Robert Waugh, and James A. Blumenthal

**Coronary Artery Disease and Opioid Use .....** 1295

Michael Marmor, Arthur Penn, Kyle Widmer, Richard I. Levin, and Robert Maslansky

**Anatomical Observations of the Pulmonary Veins With Intracardiac Echocardiography and Hemodynamic Consequences of Narrowing of Pulmonary Vein Ostial Diameters After Radiofrequency Catheter Ablation of Atrial Fibrillation .....** 1298

Monique R.M. Jongbloed, Jeroen J. Bax, Katja Zeppenfeld, Ernst E. van der Wall, and Martin J. Schalij

**Acute and Long-Term Outcome of Transvenous Cryoablation of Midseptal and Parahissian Accessory Pathways in Patients at High Risk of Atrioventricular Block During Radiofrequency Ablation .....** 1302

Felipe Aizen, Angel Arenal, Esteban G. Torrecilla, Arcadi Garcia-Alberola, Javier Jiménez, Mercedes Ortiz, Alberto Puchol, and Jesús Almendral

**Inconsistent Electrocardiographic Testing for Syncope in United States Emergency Departments .....** 1306

Benjamin C. Sun, Jennifer A. Emond, and Carlos A. Camargo, Jr.

**Effects of Levosimendan on Circulating Proinflammatory Cytokines and Soluble Apoptosis Mediators in Patients With Decompensated Advanced Heart Failure .....** 1309

John T. Parissis, Stamatis Adamopoulos, Charalambos Antoniades, George Kostakis, Antonios Rigas, Stamos Kyrzopoulos, Efsthios Iliodromitis, and Dimitrios Kremastinos

**Usefulness of the Third Heart Sound in Predicting an Elevated Level of B-Type Natriuretic Peptide .....** 1312

Gregory M. Marcus, Andrew D. Michaels, Teresa De Marco, Charles E. McCulloch, and Kanu Chatterjee

**Carcinoid Heart Disease Associated With Primary Ovarian Carcinoid Tumor .....** 1314

Nithima Chaowalit, Heidi M. Connolly, Hartzell V. Schaff, Maurice J. Webb, and Patricia A. Pellikka

**Trends in the Use of Diagnostic Imaging in Patients Hospitalized With Acute Pulmonary Embolism** ..... 1316  
Paul D. Stein, Fadi Kayali, and Ronald E. Olson

**Validation of the i-STAT Handheld Activated Clotting Time for Use With Bivalirudin** ..... 1318  
Jeffrey M. Schussler, Stuart R. Lander, Laurie A. Wissinger, Azam Anwar, Michael S. Donsky, Kenneth B. Johnson, Ravi C. Vallabhan, and Jason B. Wischmeyer

# CASE REPORTS

**Effectiveness of Sotalol Treatment in Symptomatic Brugada Syndrome** ..... 1320  
Kathryn A. Glatzer, Qing Wang, Mark Keating, Shenghan Chen, Nipavan Chiamvimonvat, and Melvin M. Scheinman

**Spontaneous Coronary Artery Dissection Associated With Sexual Intercourse** ..... 1323  
Branislav Schifferdecker, Luigi Pacifico, Eddison K. Ramsaran, Edward D. Folland, David H. Spodick, and Bonnie H. Weiner

**Famotidine and Long QT Syndrome** ..... 1325  
Ken W. Lee, Steven R. Kayser, Richard H. Hongo, Zian H. Tseng, and Melvin M. Scheinman

# FROM THE EDITOR

**Proceedings of the Editorial Board Meeting of The American Journal of Cardiology on 8 March 2004** ..... 1328  
William Clifford Roberts

# READERS' COMMENTS

**Twelve Eponymous Signs of Aortic Regurgitation, One of Which Was Named After a Patient Instead of a Physician** ..... 1332

**Is Depression Following Acute Myocardial Infarction An Independent Risk for Mortality?** ..... 1333

**Metabolic Syndrome, Inflammation, and Exercise** .... 1334

**JUNE 1, 2004, VOL. 93, NO. 11**

# CORONARY ARTERY DISEASE

**Comparability of Quality-of-Care Indicators for Emergency Coronary Angioplasty in Patients With Acute Myocardial Infarction Regardless of On-Site Cardiac Surgery (Report from the National Registry of Myocardial Infarction)** ..... 1335  
Timothy A. Sanborn, Alice K. Jacobs, Paul D. Frederick, Nathan R. Every, and William J. French, for the National Registry of Myocardial Infarction 3 and 4 Investigators

**Effects of Stent Length and Lesion Length on Coronary Restenosis** ..... 1340  
Laura Mauri, A. James O'Malley, Donald E. Cutlip, Kalon K.L. Ho, Jeffrey J. Popma, Manish S. Chauhan, Donald S. Baim, David J. Cohen, and Richard E. Kuntz

**Relation of Metformin Treatment to Clinical Events in Diabetic Patients Undergoing Percutaneous Intervention** ..... 1347  
John Kao, Jonathan Tobis, Robyn L. McClelland, Melissa R. Heaton, Barry R. Davis, David R. Holmes, Jr., and Jesse W. Currier, for the Investigators in the Prevention of Restenosis With Tranilast and Its Outcomes Trial

**Comparison of Early and Late Results of a Carbofilm-Coated Stent Versus a Pure High-Grade Stainless Steel Stent (the Carbostent-Trial)** ..... 1351  
Peter B. Sick, Götz Gelbrich, Uldis Kalnins, Andrejs Erglis, Raoul Bonan, Wim Aengevaeren, Dietmar Elsner, Bernward Lauer, Michael Woinke, Oana Brosteanu, and Gerhard Schuler

**Prediction of the No-Reflow Phenomenon With Ultrasonic Tissue Characterization in Patients With Anterior Wall Acute Myocardial Infarction** ..... 1357  
Katsuomi Iwakura, Hiroshi Ito, Shigeo Kawano, Atsushi Okamura, Koji Tanaka, Yuya Nishida, Yoshihiro Maekawa, Tohru Masuyama, Masatsugu Hori, and Kenshi Fujii

**Combined Assessment of Thrombolysis In Myocardial Infarction Flow Grade, Myocardial Perfusion Grade, and ST-Segment Resolution to Evaluate Epicardial and Myocardial Reperfusion** ..... 1362  
Robert P. Giugliano, Marc S. Sabatine, C. Michael Gibson, Matthew T. Roe, Robert A. Harrington, Sabina A. Murphy, David A. Morrow, Elliott M. Antman, and Eugene Braunwald

# ARRHYTHMIAS AND CONDUCTION DISTURBANCES

**Relation of Interleukin-6, C-Reactive Protein, and the Prothrombotic State to Transesophageal Echocardiographic Findings in Atrial Fibrillation** ..... 1368  
Dwayne S.G. Conway, Peter Buggins, Elizabeth Hughes, and Gregory Y.H. Lip

# CONGENITAL HEART DISEASE

**Evidence of Adverse Ventricular Interdependence in Patients With Atrial Septal Defects** ..... 1374  
Roxanne E. Walker, Adrian M. Moran, Kimberlee Gauvreau, and Steven D. Colan

# CARDIOVASCULAR PHARMACOLOGY

**Evaluation of Vardenafil and Sildenafil on Cardiac Repolarization** ..... 1378  
Joel Morganroth, Bernard E. Ilson, Bonnie C. Shaddinger, Guissou A. Dabiri, Bela R. Patel, Duane A. Boyle, Venkat S. Sethuraman, and Timothy H. Montague

**Black Tea Increases Coronary Flow Velocity Reserve in Healthy Male Subjects** ..... 1384  
Kumiko Hirata, Kenei Shimada, Hiroyuki Watanabe, Ryo Otsuka, Koutaro Tokai, Minoru Yoshiyama, Shunichi Homma, and Junichi Yoshikawa



## BRIEF REPORTS

### Effects of Long-Term Prednisone ( $\geq 5$ mg) Use on Outcomes and Complications of Percutaneous Coronary Intervention ..... 1389

Stephen G. Ellis, Terance Semenec, Katherine Lander, Irving Franco, Russell Raymond, and Patrick L. Whitlow

### Effect of Pravastatin on Myocardial Perfusion After Percutaneous Transluminal Coronary Angioplasty ... 1391

Olivia Manfrini, Carmine Pizzi, Gianluigi Morgagni, Fiorella Fontana, and Raffaele Bugiardini

### Impact of Major Side Branch on Periprocedural Enzyme Elevation and Long-Term Outcome in Patients Undergoing Percutaneous Coronary Intervention and Brachytherapy for In-Stent Restenosis ..... 1394

Pramod Kuchulakanti, Seung-Woon Rha, Lowell F. Satler, William O. Suddath, Augusto D. Pichard, Kenneth M. Kent, Rajbabu Pakala, Daniel A. Canos, Ellen E. Pinnow, and Ron Waksman

### Creatine Kinase-Myocardial Band Isoenzyme Elevation After Percutaneous Coronary Interventions Using Sirolimus-Eluting Stents ..... 1397

Goran Stankovic, Alaide Chieffo, Ioannis Iakovou, Dejan Orlic, Nicola Corvaja, Giuseppe Sangiorgi, Flavio Airolidi, and Antonio Colombo

### Reperfusion Assessment Using Myocardial Contrast Echocardiography in Patients With ST-Segment Elevation Acute Myocardial Infarction ..... 1401

Michael L. Main, Lisa L. Kusnetzky, Drusilla Dillon, and William C. Daniel

### Lack of Relation Between Imaging and Physiology in Ostial Coronary Artery Narrowings ..... 1404

Ali Ziaee, Walter A. Parham, Steven C. Herrmann, Richard E. Stewart, Michael J. Lim, and Morton J. Kern

### Evaluation of Isoproterenol in Patients Undergoing Resuscitation for Out-of-Hospital Asystolic Cardiac Arrest (the Israel Resuscitation With Isoproterenol Study Prospective Randomized Clinical Trial) ..... 1407

Ronen Jaffe, Ronen Rubinstein, Zvi Feigenberg, Eran Talar, Moshe Michaelson, Basheer Karkabi, David A. Halon, Moshe Y. Flugelman, and Basil S. Lewis

### Predictors of Rapid QRS Widening in Patients With Coronary Artery Disease and Left Ventricular Dysfunction ..... 1410

Patrizio Lancellotti, Henri E. Kulbertus, and Luc A. Piérard

### Relevance of Homocysteine on Brachial Flow-Mediated Vasodilatation and Carotid and Femoral Intima-Media Thickness in Patients With Hypercholesterolemia .... 1413

Gaetano Vauda, Simona Marchesi, Donatella Siepi, Francesco Bagaglia, Rita Paltriccia, Matteo Pirro, Giuseppe Schillaci, Graziana Lupatelli, and Elmo Mannarino

### Adverse Events With Concomitant Use of Simvastatin or Atorvastatin and Thiazolidinediones ..... 1417

Alawi A. Alsheikh-Ali and Richard H. Karas

### Effect of Fluvastatin Therapy on Coronary Flow Reserve in Patients With Hypercholesterolemia ..... 1419

Kohei Fujimoto, Takeshi Hozumi, Hiroyuki Watanabe, Kenji Shimada, Masaaki Takeuchi, Yuji Sakanoue, Naruhito Shimizu, Ryo Ostuka, Yoshio Kawase, Kazuo Sakamoto, Minoru Yoshiyama, Yuji Baba, Kazuo Haze, and Junichi Yoshikawa

### Comparison of Outcomes of Patients With Symptomatic Peripheral Artery Disease With and Without Atrial Fibrillation (the West Birmingham Atrial Fibrillation Project) ..... 1422

Dwayne S. G. Conway and Gregory Y. H. Lip

### Presence and Extent of Angiographic Coronary Narrowing in Patients With Left Bundle Branch Block ..... 1426

Keith Nguyen, Joaquin E. Cigarroa, Richard A. Lange, L. David Hillis, and Ellen C. Keeley

### Incidence, Management, and Outcome in Significant Pulmonary Vein Stenosis Complicating Ablation for Atrial Fibrillation ..... 1428

Helmut Pürerfellner, Josef Aichinger, Martin Martinek, Hans Joachim Nesser, Rudolf Cihal, Manfred Gschwendner, and Josef Diener

### Comparison of Effects of Losartan, Irbesartan, and Candesartan on Flow-Mediated Brachial Artery Dilation and on Inflammatory and Thrombolytic Markers in Patients With Systemic Hypertension ..... 1432

Kwang Kon Koh, Seung Hwan Han, Wook-Jin Chung, Jeong Yeal Ahn, Dong Kyu Jin, Hyung Sik Kim, Gi Soo Park, Woong Chol Kang, Tae Hoon Ahn, and Eak Kyun Shin

### Usefulness of an Elevated Troponin-I in Predicting Clinical Events in Patients With Acute Heart Failure and Acute Coronary Syndrome (from the RITZ-4 Trial) ..... 1436

Wendy A. Gattis, Christopher M. O'Connor, Vic Hasselblad, Kirkwood F. Adams, Jr., Isaac Kobrin, and Mihai Gheorghiade

### Effect of Perindopril on Platelet Nitric Oxide Resistance in Patients With Chronic Heart Failure Secondary to Ischemic Left Ventricular Dysfunction ..... 1438

Yuliy Y. Chirkov, Andrew S. Holmes, Jason D. Martelli, and John D. Horowitz

### Outcome of Subsequent Pregnancy in Patients With Documented Peripartum Cardiomyopathy ..... 1441

Karen Sliwa, Olaf Forster, Fitzgerald Zhanje, Geoff Candy, John Kachope, and Rafique Essop

### Safety of Stress Testing in Patients With Hypertrophic Cardiomyopathy ..... 1443

Jeanne K. Drinko, Patrick J. Nash, Harry M. Lever, and Craig R. Asher

**Blood Pressure Dynamics During Simulated Ventricular Tachycardia in Patients After Right Ventricular Outflow Tract Reconstruction Mainly for Tetralogy of Fallot Compared With Patients After Ventricular Septal Defect Closure** ..... 1445  
Hideo Ohuchi, Hiroyuki Ohashi, Ken Watanabe, Osamu Yamada, Toshikatsu Yagihara, and Shigeyuki Echigo

**Relation of Right Ventricular Pacing in Tetralogy of Fallot to Electrical Resynchronization** ..... 1449  
Elizabeth A. Stephenson, Frank Cecchin, Mark E. Alexander, John K. Triedman, Edward P. Walsh, and Charles I. Berul

### CASE REPORT

**Effect of Multielement Intravascular Ultrasound on the Anticoagulant Potency of Enoxaparin** ..... 1453  
George A. Stouffer, Alok Pathak, Herbert C. Whinna, and E. Magnus Ohman

## JUNE 3, 2004, VOL. 93, NO. (11A)

**A Symposium: Emerging Strategies for the Prevention and Treatment of Atherosclerosis in Patients with Type 2 Diabetes Mellitus and the Metabolic Syndrome**

## JUNE 15, 2004, VOL. 93, NO. 12

### CORONARY ARTERY DISEASE

**Incidence of Out-of-Hospital Cardiac Arrest** ..... 1455  
Thomas D. Rea, Rachel M. Pearce, Trivellore E. Raghunathan, Rozenn N. Lemaitre, Nona Sotoodehnia, Xavier Jouven, and David S. Siscovick

**Head-to-Head Comparison Between Contrast-Enhanced Magnetic Resonance Imaging and Dobutamine Magnetic Resonance Imaging in Men With Ischemic Cardiomyopathy** ..... 1461  
Theodoros A.M. Kaandorp, Jeroen J. Bax, Joanne D. Schuijff, Eric P. Viergever, Ernst E. van der Wall, Albert de Roos, and Hildo J. Lamb

**Comparison of Rapidity of Coronary Recanalization in Men With Tenecteplase Versus Alteplase in Acute Myocardial Infarction** ..... 1465  
Azan S. Binbrek, Nayan S. Rao, Dagnija Neimane, Eman Hatou, Sultan Abdulali, and Burton E. Sobel

**Effect of Glycoprotein IIIa P1A2 Polymorphism on Outcome of Patients With Stable Coronary Artery Disease and Effect of Smoking** ..... 1469  
Neuza H.M. Lopes, Alexandre C. Pereira, Whady Hueb, Paulo R. Soares, Jose R. Lanz, Bernard J. Gersh, Sergio de Oliveira, Luiz A.M. Cesar, Jose F. Ramires, and Jose Eduardo Krieger

**The Dallas Heart Study: A Population-Based Probability Sample for the Multidisciplinary Study of Ethnic Differences in Cardiovascular Health** ..... 1473  
Ronald G. Victor, Robert W. Haley, DuWayne L. Willett, Ronald M. Peshock, Patrice C. Vaeth, David Leonard, Mujeeb Basit, Richard S. Cooper, Vincent G. Iannacchione, Wendy A. Visscher, Jennifer M. Staab, and Helen H. Hobbs, for the Dallas Heart Study Investigators

### PREVENTIVE CARDIOLOGY

**Treatment of High-Risk Patients With Ezetimibe Plus Simvastatin Co-Administration Versus Simvastatin Alone to Attain National Cholesterol Education Program Adult Treatment Panel III Low-Density Lipoprotein Cholesterol Goals** ..... 1481  
Theodore Feldman, Michael Koren, William Insull, Jr., James McKenney, Helmut Schrott, Andrew Lewin, Sukrut Shah, Michelle Sidisin, Meehyung Cho, Debra Kush, and Yale Mitchell

**Efficacy and Safety of Ezetimibe Co-Administered With Simvastatin Compared With Atorvastatin in Adults With Hypercholesterolemia** ..... 1487  
Christie M. Ballantyne, Michael A. Blazing, Thomas R. King, William E. Brady, and Joanne Palmisano

### ARRHYTHMIA AND CONDUCTION DISTURBANCES

**Comparison of the Rectilinear Biphasic Waveform With the Monophasic Damped Sine Waveform for External Cardioversion of Atrial Fibrillation and Flutter** ..... 1495  
Mark J. Niebauer, James E. Brewer, Mina K. Chung, and Patrick J. Tchou

**Effect of Optimizing the VV Interval on Left Ventricular Contractility in Cardiac Resynchronization Therapy** ..... 1500  
Berry M. van Gelder, Frank A. Bracke, Albert Meijer, Lex J.M. Lakerfeld, and Nico H.J. Pijls

### CARDIOMYOPATHY

**Segmental Wall Motion Abnormalities in Idiopathic Dilated Cardiomyopathy and Their Effect on Prognosis** ..... 1504  
Laurent Fauchier, Veronique Eder, Danielle Casset-Senon, Olivier Marie, Dominique Babuty, Pierre Cosnay, and Jean Paul Fauchier

**Prevalence of Hypertrophic Cardiomyopathy in a Population-Based Sample of American Indians Aged 51 to 77 Years (the Strong Heart Study)** ..... 1510  
Barry J. Maron, Paolo Spirito, Mary J. Roman, Mary Parancas, Peter M. Okin, Lyle G. Best, Elisa T. Lee, and Richard B. Devereux

## MISCELLANEOUS

### Impact of Nephropathy After Percutaneous Coronary Intervention and a Method for Risk Stratification .... 1515

Beth A. Bartholomew, Kishore J. Harjai, Srinivas Dukkipati, Judith A. Boura, Michael W. Yerkey, Susan Glazier, Cindy L. Grines, and William W. O'Neill

## EDITORIAL

### Avoiding Authorship and Editorship Pitfalls in Multi-Authored and Multi-Edition Textbooks ..... 1520

Howard P. Gutgesell, David J. Driscoll, Hugh D. Allen, and Edward Clark

## BRIEF REPORTS

### Angiographic and Volumetric Intravascular Ultrasound Comparison Between Direct Sirolimus-Eluting Stent Implantation Versus Predilation ..... 1522

Juan S. Muñoz, Alexandre Abizaid, Mariano Albertal, Gary S. Mintz, Roselei Graebin, Fausto Feres, Rodolfo Staico, Luiz A. Mattos, Luiz F. Tanajura, Andrea S. Abizaid, Amanda Sousa, and J. Eduardo Sousa

### Prognostic Significance of Serum Creatinine Concentration for In-Hospital Mortality in Patients With Acute Myocardial Infarction Who Underwent Successful Primary Percutaneous Coronary Intervention (from the Heart Institute of Japan Acute Myocardial Infarction [HJAMI] Registry) ..... 1526

Jun-ichi Yamaguchi, Hiroshi Kasanuki, Yasuhiro Ishii, Masahiro Yagi, Hiroshi Ogawa, Shinya Fujii, Hiroshi Koganei, Hisayuki Okada, Hirotaka Kimura, Toshinobu Horie, Kazuo Haze, Tetsuya Sumiyoshi, and Takashi Honda, for the HJCI Study Group

### Comparison of Frequency of Left Ventricular Thrombi in Patients With Anterior Wall Versus Non-Anterior Wall Acute Myocardial Infarction Treated With Antithrombotic and Antiplatelet Therapy With or Without Coronary Revascularization ..... 1529

Devraj Nayak, Wilbert S. Aronow, Rishi Sukhija, John A. McClung, Craig E. Monsen, and Robert N. Belkin

### Results of Angioplasty (With or Without Stent) at the Site of a Narrowed Coronary Anastomosis of the Left Internal Mammary Artery Graft or Via the Internal Mammary Artery ..... 1531

Ulrich Köckeritz, Klaus Reynen, Michael Knaut, and Ruth H. Strasser

### Usefulness of Hyperbaric Oxygen Therapy to Inhibit Restenosis After Percutaneous Coronary Intervention for Acute Myocardial Infarction or Unstable Angina Pectoris ..... 1533

Mohsen Sharifi, Wassim Fares, Isam Abdel-Karim, J. Michael Koch, Joseph Sopko, and Dale Adler, for the Hyperbaric Oxygen Therapy in Percutaneous Coronary Interventions (HOT-PI) Investigators

### Prognostic Significance of Cerebrovascular and Peripheral Arterial Disease in Patients Having Percutaneous Coronary Interventions ..... 1536

Eugenia Nikolsky, Roxana Mehran, George D. Dangas, Zoran Lasic, Gary S. Mintz, Manuela Negoita, Alexandra J. Lansky, Gregg W. Stone, Issam Moussa, Sriam Iyer, Yingbo Na, Jeffrey W. Moses, and Martin B. Leon

### Occlusion of Pseudoaneurysms Using Human or Bovine Thrombin Using Contrast-Enhanced Ultrasound Guidance ..... 1540

Peter Hubert Grewe, Andreas Mügge, Alfred Gerding, Elisabeth Harter, Henning Baberg, Christoph Hanefeld, and Thomas Deneke

### Different Treatments and Outcomes of Consecutive Patients With Non-ST-Elevation Myocardial Infarction Depending on Initial Electrocardiographic Changes (Results of the Acute Coronary Syndromes [ACOS] Registry) ..... 1543

Harm Wienbergen, Anselm Kai Gitt, Rudolf Schiele, Claus Juenger, Tobias Heer, Christina Vogel, Martin Gottwik, and Jochen Senge, for the ACOS Study Group

### Comparison of Frequency of Interferon- $\gamma$ -Positive CD4<sup>+</sup> T Cells Before and After Percutaneous Coronary Intervention and the Effect of Statin Therapy in Patients With Stable Angina Pectoris ..... 1547

Tomoko Tanaka, Hirofumi Soejima, Nobutaka Hirai, Tomohiro Sakamoto, Michihiro Yoshimura, Ichiro Kajiwara, Yuji Miyao, Kazuteru Fujimoto, Hiroo Miyagi, Atsushi Irie, Yasuharu Nishimura, and Hisao Ogawa

### Risk Factors and Patient Outcomes With Coronary Aneurysms ..... 1549

Timir S. Baman, Jason H. Cole, Chandan M. Devireddy, and Laurence S. Sperling

### Impact of Carotid Arterial Narrowing on Outcomes of Patients With Acute Coronary Syndromes ..... 1552

Roman Komorovsky, Alessandro Desideri, Sebastian Coscarelli, Lauro Cortigiani, and Leopoldo Celegon

### Effect of Sinus Rhythm Restoration on Plasma Brain Natriuretic Peptide in Patients With Atrial Fibrillation ..... 1555

Beata Woźniakowska-Kapłon

### Efficacy of Substituting Innovator *Propafenone* for Its Generic Formulation in Patients With Atrial Fibrillation ..... 1558

Guy Amit, Amit Rosen, Avraham B. Wagshal, Dan Y. Bonne, Tzvika Liss, Aviva Grosbard, Reuven Ilia, and Amos Katz

### Comparison of Plasma N-Brain Natriuretic Peptide, Peak Oxygen Consumption, and Left Ventricular Ejection Fraction for Severity of Chronic Heart Failure ..... 1560

Simon G. Williams, Leong L. Ng, Russell J. O'Brien, Steve Taylor, Yi-Fen Li, and Lip-Bun Tan

### Optimum Blood Collection Intervals for B-Type Natriuretic Peptide Testing in Patients With Heart Failure ..... 1562

Alan H.B. Wu, Andrew Smith, and Fred S. Apple

**Effect of Spironolactone on Endothelial Function in Patients With Congestive Heart Failure on Conventional Medical Therapy ..... 1564**

Ademola K. Abiose, George A. Mansoor, MaryBeth Barry, Richard Soucier, Chandra K. Nair, and David Hager

**Comparison of Myocardial Function in Children With Body Mass Indexes  $\geq 25$  Versus Those  $< 25 \text{ kg/m}^2$  ..... 1567**

Sudhir Ken Mehta, Cindy Holliday, Louisa Hayduk, Linda Wiersma, Nancy Richards, and Adel Younoszai

**Comparison of Right and Left Ventricular Function in Obese and Nonobese Men ..... 1569**

Maria E. Otto, Marek Belohlavek, Bijoy Khandheria, Gregory Gilman, Anna Svatikova, and Virend Somers

**CASE REPORT**

**Diffuse T-Wave Inversions Associated With Electroconvulsive Therapy ..... 1573**

Kevin E. O'Brien, Nicholas Pastis, and Jamie B. Conti



